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Pakistan, Meteorological Dept.

PAKISTAN WEATHER REVIEW, 1951

MONTHLY WEATHER REPORT

JANUARY

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Chief Features :—(1) The activity of western disturbances was less marked than usual.

(2) The weather over East Pakistan was mainly dry.

(3) Rainfall over the country was in large defect except in the North Punjab.

West Pakistan : In association with the passage of an active western disturbance through Russian Turkistan an extensive trough was persisting over Iran, Afghanistan and Baluchistan during the first half of the first week when the abnormally low temperatures of the previous month rose gradually over the entire West Pakistan.

Ten western disturbances, three secondaries and two low pressure waves affected West Pakistan during the rest of the month causing light to moderate spells of wet weather over the north Punjab, the upper North-West Frontier Province and North Baluchistan. Of these western disturbances, four were more active than the rest. The first appeared over Baluchistan on the 5th with its secondary over the North Arabian Sea. On the morning of 6th the disturbance over Baluchistan moved into northeast Baluchistan, the adjoining Punjab and the North-West Frontier Province and its secondary appeared over Kathiawar. By the evening of the 7th the system had moved away northeast-wards. In its association moderate falls of rain/snow were experienced in Baluchistan and the northern parts of West Pakistan between 5th and 7th.

The second western disturbance bordering north Baluchistan on the 10th caused spell of wet weather in Baluchistan on the 11th, in the upper North-West Frontier Province and the Punjab during the period 11th to 13th and moved away northeastwards. Its secondary in the north Arabian Sea moved across Sind on the 12th causing isolated drizzle and dust/thunderstorms in Sind. In the rear of the above system a mild cold wave affected north Baluchistan, upper Sind, the south Punjab and the North-West Frontier Province and lasted for two days when the night temperatures were below freezing point in the lower North-West Frontier Province and Baluchistan outside Mekran coast on the 13th and generally below freezing point in the North-West Frontier Province and north Baluchistan on the 14th.

The third one was a secondary which moving away northeast-wards across Baluchistan and the south Punjab on the 27th caused (1) fairly marked spell of wet weather over the North-West Frontier Province and the north Punjab and (2) considerable fall in night temperatures over north Baluchistan and the North-West Frontier Province on the 28th.

The fourth disturbance moving northeastwards across north Baluchistan and the North-West Frontier Province on the 30th, appeared as an extensive western depression extending from the North-West Frontier Province to the southwest United Province on the last day of the month, when a spell of wet weather commenced over the Punjab and the upper North-West Frontier Province.

Some of the noteworthy amounts of rainfall recorded during the month were :—Kalat 1″ on the 6th ; Drosh 1-1/2″ on the 7th ; Jhelum and Rawalpindi 1″ each on the 13th ; Murree 1″ on the 19th and 28th ; and Parachinar 1″ on the 28th.

The mean actual rainfall during the month was in large defect in the South Punjab, the North-West Frontier Province and Baluchistan and normal in the north Punjab. No rain fell in Sind. Averaged over the plains of West Pakistan it was in moderate defect.

The mean maximum and minimum temperatures were normal over the region except for North Baluchistan where the maximum temperature was above normal and the upper North-West Frontier Province where the minimum temperature was below normal.

Mean relative humidity was in excess in lower Sind, in defect in the upper North-West Frontier Province and normal elsewhere. Skies were more clouded than usual in the north Punjab and the lower North-West Frontier Province, less clouded than usual in north Baluchistan and lower Sind, and normally clouded elsewhere.

East Pakistan : Except for scattered rain/drizzle in the Northern sub-division on the 17th and in the Northern and Eastern sub-divisions on the 18th due to eastward passage of a low pressure wave across the north Bengal, weather continued to be dry over East Pakistan during the month.

The mean actual rainfall during the month was in large defect in the Northern and Eastern sub-divisions. No rain fell in the Deltaic sub-division. Averaged over the region as a whole, it was in large defect.

The mean maximum and minimum temperatures and relative humidity were normal over the region except for the Northern sub-division where relative humidity was in defect. Skies were less clouded than usual.

Table I contains the Divisional and Sub-Divisional means of rainfall, temperature, humidity and cloud for the 5 Chief Divisions and 12 Sub-Divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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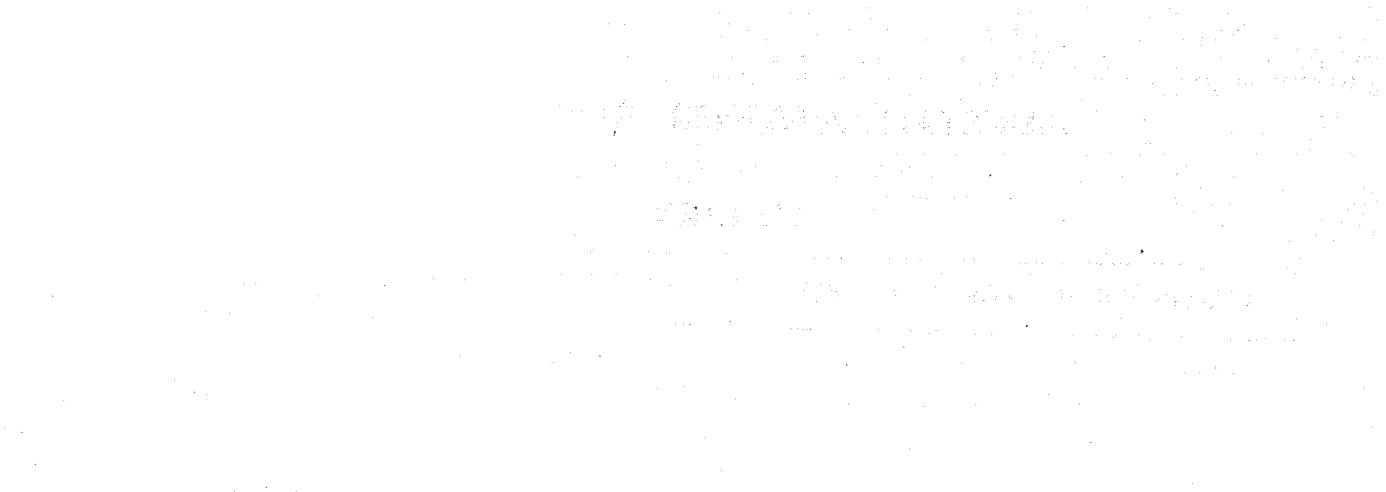

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TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—JANUARY 1951

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb	%	
East Pakistan	0·04	0·35	—0·31	—89	—0·1	—0·5	—0·5	—2	—0·7
Mean of East Pakistan	0·04	0·35	—0·31	—89	—0·1	—0·5	—0·5	—2	—0·7
Punjab	0·73	0·92	—0·19	—21	—0·4	+0·5	0·0	+5	+0·4
N.-W. F. P.	0·19	0·80	—0·61	—76	—0·1	—1·3	—0·4	0	+0·6
Baluchistan	0·24	0·95	—0·71	—75	+2·9	+0·4	—0·1	—2	—0·7
Sind	0·00	0·24	—0·24	—100	+1·6	+0·1	+0·5	+6	—0·6
Mean of West Pakistan excluding Baluchistan	0·39	0·67	—0·28	—42	+0·3	+0·1	+0·1	+5	+0·1
Sub-Division									
East Pakistan (North)	0·11	0·39	—0·28	—72	+1·3	—0·2	—0·6	—8	—0·9
East Pakistan (East)	0·01	0·28	—0·27	—96	+0·5	—1·2	—0·5	—1	—0·6
East Pakistan (Deltaic)	0·00	0·41	—0·41	—100	—1·6	+0·1	—0·4	0	—0·8
Kashmir*	...	...	...	...	...	...	...	...	...
North Punjab	1·40	1·47	—0·07	—5	—0·5	+0·4	0·0	+3	+0·6
South Punjab	0·05	0·31	—0·26	—84	—0·3	+0·5	+0·1	+5	+0·3
N.-W.F.P. (Upper)	0·27	1·44	—1·17	—81	+0·3	—2·9	—0·8	—9	—0·4
N.-W.F.P (Lower)	0·15	0·49	—0·34	—69	+0·3	+0·2	—0·3	+4	+1·1
Baluchistan (North)	0·19	0·89	—0·70	—79	+3·8	+0·6	—0·3	—2	—0·9
Baluchistan (South)	0·43	1·19	—0·76	—64	+0·6	—0·3	+0·3	—1	—0·1
Sind (Upper)	0·00	0·21	—0·21	—100	+1·7	+0·6	—0·1	+1	+0·1
Sind (Lower)	0·00	0·26	—0·26	—100	+1·6	—0·2	+0·9	+9	—1·0

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest Gpkm level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from :— N	NE	E	SE	S	SW	W	NW	calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	mb.	°F	°F	°F	mb.	mb.	%	%	Oktas										
EAST PAKISTAN (NORTH)																							
Pabna	0300					63·5	58·2	53·0	13·7	—0·8	69	—8											
Sirajganj	0000	49	1012·0		1013·8	54·2	53·4	52·5	13·3	...	95		0·7		0	1	0	0	0	1	3	3	23
	0300		1015·0		1016·8	62·9	58·7	54·8	15·3	...	76		1·0		5	1	0	0	0	1	1	10	13
	1200		1011·5		1013·3	67·2	62·1	57·8	16·7	...	73		0·4		1	0	0	0	0	0	0	0	30
Bogra	* 0000	65	1012·6		1015·0	54·1	52·7	50·1	12·3	...	87		0·6		0	1	0	0	0	0	1	1	28
	0300	63	1015·1	—0·3	1017·4	61·2	57·0	53·4	14·1	—0·1	76	—4	0·8	—1·0	6	8	2	0	0	1	2	5	7
	1200		1011·2		1013·4	72·4	61·3	52·3	13·4		51		1·1		2	2	0	0	0	3	3	1	20
Dinajpur	0000	123	1011·6		1016·0	49·1	47·9	46·6	10·9	...	91		0·4	...	0	0	0	0	0	1	0	0	30
	0300		1013·7	+0·6	1018·1	60·4	55·3	51·2	12·5	—1·0	72	—12	0·6	—0·9	0	1	0	0	0	1	6	0	23
	1200		1010·4	...	1014·7	68·4	59·3	52·1	13·0	...	56		0·4		0	0	0	0	0	0	0	0	31
EAST PAKISTAN (EAST)																							
Cox's Bazar	0000	38	1013·1		1014·5	56·1	55·0	53·7	14·3	...	92		0·9		0	0	0	0	0	0	0	0	31
	0300		1014·8	—0·5	1016·2	65·3	60·4	57·3	15·4	—1·7	73	0	1·3	—0·1	1	0	0	0	0	0	0	0	30
	1200		1011·9	...	1013·3	71·0	63·4	57·5	16·6		66		1·0		2	0	0	0	0	0	0	1	28
Chittagong	0300	87	1013·6	—0·4	1016·8	64·7	59·2	55·0	14·9	—1·2	71	—6	0·8	—0·6	5	17	4	0	0	0	0	0	3
	1200		1010·4	...	1013·5	70·4	62·3	59·0	15·4		63		1·0		4	2	0	0	0	3	10	12	0
Comilla	0000	29	1014·0		1015·0	56·3	55·3	54·1	14·3	...	94		0·6		4	1	0	0	1	0	0	0	25
	0300		1015·6	—0·5	1016·6	62·5	59·2	56·7	15·8	—0·2	81	+6—16	0·5	—0·8	10	3	0	2	3	1	0	2	10
	1200		1012·3		1013·3	72·1	63·6	57·6	15·2		60		0·9		13	4	0	0	1	0	1	2	10
Narayanganj	0000	26	1013·7	...	1014·8	55·4	52·6	52·6	11·9	...	91	...	0·5	...	3	1	1	0	0	1	3	8	14
	0300	...	1015·3	—1·2	1016·2	67·0	60·2	55·0	14·5	—0·9	66	—10	0·8	—1·0	4	1	5	1	0	2	1	17	0
	1200	...	1012·3	...	1013·2	69·9	61·5	55·0	14·7	...	59	...	0·5	...	0	0	1	0	1	1	11	3	14
Brahmanbaria	0000	32	1014·7	...	1015·8	54·6	53·7	52·8	13·8	...	94	...	1·6	...	3	0	0	0	0	0	0	0	28
	0300	...	1016·2	...	1017·3	65·4	60·5	56·7	15·4	+0·7	74	+4	0·5	...	8	4	2	0	0	0	1	0	16
	1200		1012·4	...	1013·5	70·4	63·1	57·7	15·9	...	64	...	0·3	...	0	1	0	0	0	0	0	0	30
Srimangal...	0000	69	1012·6	...	1015·1	46·9	46·6	46·5	10·5	...	98	...	0·8	...	0	0	0	0	0	0	0	0	31
	0300	...	1014·6	—0·7	1017·1	60·7	58·4	56·6	15·6	+1·4	87	+3	1·0	—0·4	0	0	0	0	0	0	0	1	30
	1200	...	1011·5	...	1014·0	63·2	62·1	60·9	18·5	...	93	...	1·0	...	0	0	0	0	0	0	0	0	31
Mymensingh	0000	62	1013·4	...	1015·7	51·5	49·6	48·3	10·9	...	85	X	0·7	...	0	0	0	0	0	0	0	0	31
	0300	...	1015·4	—0·1	1017·7	58·5	54·3	50·5	13·0	—1·9	76	—5	0·7	—1·2	0	0	0	2	0	0	0	0	29
	1200	...	1011·7	...	1014·0	62·2	55·0	48·3	11·6	...	62	...	0·3	...	0	0	0	0	0	0	1	0	30
EAST PAKISTAN (DELTAIC)																							
Faridpur	0000	46	1014·0	...	1015·6	53·5	52·7	51·7	12·8	...	93	...	0·5	...	1	0	0	3	1	0	0	0	26
	0300	...	1015·7	+0·3	1017·3	63·7	59·2	55·3	15·3	+0·4	74	—3	0·8	—0·5	5	5	1	10	1	0	0	0	9
	1200	...	1012·3	...	1013·9	70·2	63·2	57·8	16·5	...	65	...	0·9	...	2	1	0	2	1	0	0	0	25
Barisal	0000	11	1013·9	...	1014·3	56·0	55·0	53·5	14·3	...	91	...	0·0	...	1	0	0	0	0	0	0	0	30
	0300	...	1016·5	—0·5	1016·9	64·2	59·4	55·6	14·8	—1·6	74	—2	0·5	—0·7	12	2	0	0	1	0	0	10	6
	1200	...	1012·9	...	1013·3	72·5	62·7	55·4	15·2	...	55	...	0·9	...	1	1	0	0	0	0	0	0	29
Khulna	0000	16	1015·2	...	1015·8	56·4	54·7	53·2	13·8	...	89	...	0·4	...	7	1	1	0	0	0	0	1	21
	0300	...	1017·3	+0·1	1017·8	64·9	58·9	54·0	14·4	—0·3	68	+1	0·3	—1·8	8	3	0	0	0	0	0	8	12
	1200	...	1014·0	...	1014·5	70·9	62·2	55·5	15·5	...	58	...	0·5	...	4	0	0	0	0	0	5	2	20

* Observation at 0000 hours. recorded from a distant site by P.B.O. staff.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY 1951—*contd.*

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest Gpkm level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	mb.	°F	°F	°F	mb.	mb.	%	%	Oktas										
ssore	0000	26	1014·9	...	1015·8	49·8	49·2	48·3	11·8	...	95	...	0·3	...	3	0	0	0	0	0	0	2	26
	0300	...	1016·5	—0·4	1017·3	62·5	58·0	55·1	14·7	+0·2	77	+2	0·6	—0·9	8	6	0	1	1	0	0	4	11
	1200	...	1012·8	...	1013·7	70·2	62·8	56·2	15·9	...	65	...	0·8	...	2	2	0	0	0	0	1	2	24
atkhira	0000	16	1014·4	...	1015·0	53·8	52·5	50·7	12·8	...	91	...	1·1	...	5	0	0	0	0	0	0	4	22
	0300		1015·9	—1·1	1016·5	61·3	57·4	54·0	14·1	—0·5	74	0	0·9	—0·5	15	0	0	2	0	0	0	10	4
	1200		1012·5	...	1013·1	72·4	57·0	57·4	8·7	...	60	...	1·8	...	2	0	0	0	0	0	0	2	27
KASHMIR																							
rinagar*	0000	5,205																					
	0300																						
	1200																						
Gulmarg*	0000	8,709																					
	0300																						
	1200																						
Dras*	0000	10,059																					
	0300																						
	1200																						
Leh*	0000	11,529																					
	0300																						
	1200																						
Skardu*	0000	7,505																					
	0300																						
	1200																						
Gilgit*	0000	4,890																					
	0300																						
	1200																						
Misgar	0000	10,190	695·6	...	699·4	14·1	12·2	6·9	1·8	...	70	...	4·7	...	1	0	0	0	0	0	4	0	26
	0300	...	696·6	...	700·5	13·3	11·3	6·0	1·7	...	69	...	4·8	...	0	0	2	0	2	0	6	1	20
	1200	...	694·6	...	698·4	22·5	18·0	6·7	1·9	...	49	...	5·7	...	1	1	17	2	0	0	2	0	8
NORTH PUNJAB																							
Lahore	0000	702	991·4	...	1017·4	44·0	43·1	41·9	9·1	...	93	...	2·5	...	3	3	1	0	0	0	1	2	21
	0300	...	992·8	0·0	1018·8	44·3	43·1	41·6	8·9	+0·3	89	+5	3·4	+0·4	1	4	1	1	0	0	2	4	18
	1200	...	990·9	...	1015·9	62·4	53·5	44·2	10·0	...	53	...	4·4	...	5	5	1	0	0	0	7	1	12
Sialkot	0000	830	986·5	...	1017·1	46·4	44·1	41·1	8·7	...	82	...	3·5	...	1	3	0	1	0	1	0	4	21
	0300	...	988·1	—0·3	1018·6	46·8	44·5	41·7	8·8	—0·3	83	—4	4·0	+1·4	0	2	0	1	0	0	0	1	27
	1200	...	986·0	...	1015·7	59·9	52·7	45·6	10·4	...	59	...	5·0	...	1	2	1	1	0	1	0	4	21
Jhelum	0000	765	989·6	...	1018·1	42·5	41·6	40·5	8·5	...	92	...	3·1	...	0	0	1	1	0	0	2	3	24
	0300	...	990·7	...	1019·3	42·6	41·3	39·4	8·3	...	89	...	4·5	...	1	0	0	0	0	0	2	6	22
	1200	...	988·7	...	1016·1	61·8	54·4	47·2	10·0	...	60	...	4·2	...	2	0	0	0	0	4	1	6	18
		(+)																					
Rawalpindi†	0000	1676	958·1	...	1019·3	40·5	38·5	41·4	7·1	...	83	...	3·4	...	0	0	0	0	0	0	0	0	31
	0300	...	958·8	—0·2	1020·1	41·0	38·7	35·3	7·1	—0·3	81	—1	4·2	+1·0	1	0	0	0	0	0	1	0	29
	1200	...	956·9	...	1016·1	57·1	48·2	37·7	7·8	...	51	...	3·8	...	0	3	0	1	1	0	6	0	20
Khushab	0000	616	994·9	...	1017·7	45·2	42·2	38·2	7·5	...	77	...	1·8	...	0	5	7	3	1	2	3	1	9
	0300	...	995·9	—0·8	1018·8	44·2	41·7	38·9	7·8	+0·8	77	+11	3·1	+0·4	0	7	3	3	1	2	2	1	12
	1200	...	993·9	...	1015·9	61·1	53·2	40·5	10·3	...	47	...	3·3	...	1	5	7	2	1	4	4	1	6
Lyallpur	0000	605	994·3	...	1016·7	43·6	42·3	40·4	8·6	...	88	...	2·3	...	5	3	1	1	1	2	5	4	9
	0300	...	995·8	—0·8	1018·3	42·9	41·6	40·3	8·9	+0·4	91	+14	3·1	—0·5	2	0	3	2	3	3	4	3	11
	1200	...	994·3	...	1016·2	62·7	54·2	45·1	10·5	...	54	...	3·3	...	3	3	2	1	2	3	3	2	12

*Data not available.

(+) Ht. of Rawalpindi was changed from 1,674 Ft. to 1,676 Ft. on 27-1-1951.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY 1951 *contd.*—

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest Gpkm level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	GMT	Ft.	Mb.	Mb.	mbs.	°F	°F	°F	mb.	mb.	%	%	Oktas									
SOUTH PUNJAB																						
Montgomery	0000	558	996·7	...	1017·4	44·8	43·0	40·9	8·5	...	84	...	2·5	...	1	2	1	1	0	1	0	2
	0300	...	998·1	—0.1	1018·7	46·3	43·9	40·7	8·8	+0·9	80	+3	2·7	+0·3	1	1	0	0	0	2	0	5
	1200	...	995·8	...	1015·7	64·7	54·1	42·7	9·8	...	44	...	2·2 ~~1·8~~	...	1	4	2	1	0	5	1	2
Multan	0300	413	1003·6	—0.1	1018·9	46·3	43·4	39·6	8·3	—1·2	79	+5	3·4 ~~1·6~~	+1·0 +0·1	9	2	0	1	2	3	2	4
	1200	...	1000·9	...	1015·6	65·9	54·4	41·9	9·3	...	45	...	3·2 ~~1·8~~		7	3	4	3	3	4	1	4
Fort Abbas	0000	475	999·0	...	1016·8	41·9	40·3	38·0	7·8	...	86	...	1·3	...	8	8	4	3	0	0	0	2
	0300	...	1000·6	...	1018·3	42·7	41·3	37·5	8·1	...	79	...	1·6	...	5	4	6	5	3	2	1	3
	1200	...	997·7	...	1014·7	66·4	55·6	46·5	10·1	...	47	...	2·4	...	10	9	0	0	0	2	3	6
Bahawalpur																						
	0300	384	1004·4	—0·6	1018·7	45·1	42·1	37·9	7·7	+0·1	76	+3	2·5	—0·1	1	4	5	2	1	0	0	0
	1200	...	1001·8	...	1015·4	67·4	55·2	41·9	9·4	...	41	...	2·1	...	9	2	1	0	1	4	0	0
Khanpur																						
	0300	297	1007·1	—1.1	1018·2	45·1	42·2	37·9	7·8	+1·2	76	+10	2·4	+0·2	10	7	0	2	5	2	0	3
	1200	...	1004·7	...	1015·2	69·7	55·0	38·5	8·1	...	34	...	2·7	...	6	9	1	0	2	2	4	3
N.-W.F.P. UPPER																						
Chakdara	0000	~~2,197~~ 2225	939·2	...	1020·0	39·4	36·7	32·7	6·4	...	74	...	1·8	...	1	0	1	0	0	0	1	0
	0300	...	940·0	...	1021·0	39·2	37·3	33·5	7·0	...	82	...	2·5	...	0	0	0	1	0	0	0	0
	1200	...	938·8	...	1016·1	54·2	45·8	35·2	7·5	...	49	...	2·4	...	5	3	1	1	2	0	0	0
Peshawar	0000	1,175	975·8	...	1019·0	41·7	37·3	28·8	5·5	...	62	...	2·7	...	0	0	0	1	8	18	1	1
	0300	...	976·9	—0·7	1020·3	41·2	37·0	28·9	5·6	—0·8	63	—8	4·2	—0·4	1	0	2	3	5	12	0	1
	1200	...	974·8	...	1016·6	59·2	48·3	33·0	7·2	...	40	...	4·0	...	3	5	5	2	4	1	0	1
Landikotal	0000	3,503	895·2	...	900·5	35·9	32·3	24·0	4·8	...	65	...	3·2	...	0	0	0	1	0	1	0	1
	0300	...	896·2	...	901·4	35·9	32·2	24·7	4·7	...	66	...	4·0	...	3	1	0	3	1	1	0	3
	1200	...	894·8	...	899·8	49·6	40·4	24·6	4·8	...	41	...	4·0	...	1	4	0	5	0	7	0	9
N.-W.F.P. LOWER																						
Bannu	0000	1,263	971·9	...	1018·3	43·5	39·0	32·1	6·1	...	63	...	1·8	...	0	0	0	0	0	1	1	3
	0300	...	972·8	...	1019·3	43·4	38·5	30·4	5·7	—0·4	59	—1	4·2	+1·8	0	0	1	0	0	0	9	5
	1200	...	970·7	...	1015·4	61·7	48·6	31·3	5·9	...	32	...	3·5	...	0	0	3	15	1	0	0	2
Miranshah*	0000	3,026																				
	0300																					
	1200																					
D.I. Khan	0000	570	998·2	...	1019·4	43·4	40·8	37·2	7·6	...	79	...	0·6	...	1	6	0	0	0	1	1	0
	0300	...	997·3	—0.9	1018·8	41·7	39·3	35·5	6·9	—0·1	80	+9	2·9	+0·3	0	3	0	0	0	1	5	2
	1200	...	994·9	...	1015·2	65·3	53·7	41·5	9·0	...	43	...	2·0	...	3	8	4	3	1	0	0	0
BALUCHISTAN (North)																						
Fort Sandeman																						
	0300	4,614	861·2	—0·5	903·1	34·4	29·1	17·6	3·4	—1·6	51	—26	2·2	—0·6	0	0	0	1	0	0	0	0
	1200	...	859·9	...	899·6	55·0	41·9	17·0	3·9	...	26	...	2·6	...	0	2	0	0	0	4	0	1
Hindu-bagh	0000	5,950	819·6	...	796·6	33·5	30·0	24·4	4·4	...	67	...	2·1	...	0	0	1	0	1	8	16	4
	0300	...	820·9	...	798·5	32·6	30·1	25·8	4·8	...	76	...	2·8	...	0	0	3	1	0	10	12	2
	1200	...	818·7	...	796·3	48·2	36·5	17·6	3·4	...	29	...	2·3	...	0	0	4	0	2 (a)	17	6	0
Loralai	0000	4,699	856·7	...	901·4	33·5	29·2	19·0	3·7	...	55	...	2·3	...	0	0	0	1	1	11	13	1
	0300	...	857·2	...	902·1	33·8	27·5	11·0	2·6	...	38	...	2·8	...	0	0	0	2	0	12	5	2
	1200	...	855·0	...	897·8	52·9	40·3	19·0	3·6	...	23	...	3·4	...	0	1	1	11	6	5	0	3

*Data rejected.

(a) mean of 30 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY 1951

contd.—

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest Gpkm level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	mbs.	mbs.	%	%	Otaks										
Sibi	0000	441	1000·6	...	1016·9	48·5	43·6	37·0	7·0	...	60	...	2·5	...	0	3	1	0	0	0	2	3	22
	0300	...	1002·1	—0·2	1018·4	47·5	42·5	34·7	6·9	+1·4	61	+11	2·8	+0·2	0	2	0	1	0	1	1	2	24
	1200	...	999·2	...	1014·8	70·0	55·0	39·0	8·1	...	31	...	2·3	...	0	1	5	5	1	3	5	3	8
Quetta																							
	0300	5,490	833·1	—1·7	795·4	31·7	30·3	28·0	5·2	+0·3	86	+8	2·4	—1·1	1	1	3	5	5	2	0	2	12
	1200	...	831·1	...	794·6	48·4	41·2	32·8	6·3	...	57	...	3·3	...	5	4	0	0	3	6	2	10	1
Quetta (Samungli)	0000	5,253	842·6	...	796·1	26·9	25·8	21·5	4·4	...	79	...	1·1	...	0	0	5	2	4	1	4	4	11
	0300	...	842·7	...	797·1	28·1	27·2	23·3	4·6	...	81	...	3·0	...	0	0	2	8	2	1	4	5	9
	1200	...	841·4	...	797·6	48·6	41·7	32·1	6·4	...	53	...	3·5	...	5	0	5	2	1	2	4	11	1
Chaman	0000	4,311	870·4	...	903·4	40·0	35·8	29·2	5·5	...	66	...	1·9	...	0	1	15	11	2	1	1	0	0
	0300	...	871·4	—0·2	904·5	39·7	35·4	29.1	5·4	—0 7	67	+1	2·4	—1·0	0	0	10	14	2	4	0	0	1
	1200	...	870·2	...	902·3	53·5	45·0	34·2	6·8	...	48	...	2·6	...	1	1	2	2	0	9	9	6	1
Nushki	0000	3,412	904·4	...	906·0	41·5	37·0	30·0	5·7	...	63	...	2·0	...	0	5	9	0	0	2	0	0	15
	0300	...	905·0	...	906·7	46·5	38·8	27·1	5·0	...	47	...	2·2	...	2	3	15	1	1	1	0	0	8
	1200	...	902·6	...	904·4	60·3	46·9	26·0	5·5	..	31	...	3·1	...	0	0	0	1	1	4	9	15	1
Kalat	0000	6,616	799·2	...	796·4	29·0	28·1	5·2	4·8	...	90	...	1·7	...	0	0	0	2	27	0	0	1	1
	0300	...	800·2	—0·2	797·6	28·3	27·7	7·8	4·6	+0·2	95	+25	2·1	—0·9	0	2	0	21	3	0	0	1	4
	1200	...	798·2	...	795·7	47·4	39·7	26·8	5·8	...	51	...	2·7	...	1	0	0	1	4	4	1	19	1
Dalbandin	0000	2,785	919·9	...	900·6	40·1	36·3	30·0	5·7	...	74	...	3·4	...	3	13	1	0	0	0	0	2	12
	0300	...	920·5	—1·1	901·4	38·5	35·0	29·3	5·5	—1·4	70	—3	1·7	—1·3	1	15	0	2	1	0	0	1	11
	1200	...	919·1	...	900·4	03·3	51·2	38·0	7·8	...	40	...	2·6	...	0	3	7	7	2	8	1	1	2
Nokkundi	0000	2,229	937·7	...	1017·4	44·6	40·1	30·9	6·8	...	66	...	0·7	...	6	9	1	0	0	0	0	8	7
	0300	...	938·9	...	1019·1	45·2	38·5	36·7	5·8	+0·3	50	—3	1·2	—1·4	2	9	0	0	0	1	2	6	11
	1200	...	936·6	...	1013·0	66·3	51·8	36·4	7·2	...	36	...	1·5	...	9	3	4	7	2	0	0	6	0
BALUCHISTAN (SOUTH)																							
Las Bela (R)	0000	292																					
	0300																						
	1200																						
Ormara	0000	15	1015·1	...	1015·5	59·9	57·3	54·7	14·9	...	85	...	1·4	...	1	0	3	1	0	0	1	1	24
	0300	...	1016·5	...	1016·4	59·7	57·1	54·8	14·8	+1·7	85	+9	2·0	—0·6	0	3	3	3	0	0	1	0	21
	1200	...	1013·8	...	1014·3	72·2	62·5	56·1	14·7	...	59	...	1·6	...	1	2	3	5	5	6	9	0	0
Pasni	0000	10	1016·2	...	1016·7	56·3	54·8	53·2	13·9	...	91	..	1·2	...	2	1	3	0	0	1	2	16	6
	0300	...	1017·2	—0·6	1017·9	58·1	56·0	54·2	14·5	+1·1	88	+11	1·3	—1·0	3	2	2	1	0	0	2	14	7
	1200	...	1014·7	...	1014·8	72·4	66·9	62·8	19·9	...	74	...	0·6	...	1	0	2	6	2	15	2	1	(b) 0
Turbat	0000	510	999·3	...	1018·0	53·8	49·9	46·1	10·5	...	74	...	0·5	...	0	1	6	2	1	1	2	0	18
	0300	...	1000·7	...	1019·3	55·7	51·0	44·5	12·3	...	69	...	0·3	...	0	5	9	0	0	0	0	0	17
	1200	...	997·1	...	1014·6	70·7	60·3	43·6	13·4	...	38	...	0·2	...	3	4	5	1	1	3	11	1	2
Panjgur	0000	3,177	906.3	...	900.3	41.3	36.8	28.8	5.5	...	63	...	2.4	...	5	19	2	0	1	0	0	0	4
	0300	...	906.8	—1.1	901.0	42.0	37.3	27.9	5.7	—1.2	64	—10	3.0	+0·3	4	25	0	0	0	0	0	2	0
	1200	...	904.9	...	895.9	62.1	47.7	24.0	5.4	...	28	...	2.9	...	4	1	0	0	1	11	4	8	2
SIND (UPPER)																							
Reti	0000	280	1007·1	...	1018·3	43·9	40·4	35·0	7·0	...	71	...	0·3	...	11	3	6	0	2	0	0	2	7
	0300	...	1009·0	...	1019·5	43·4	39·6	34·1	6·6	...	71	...	1·3	...	12	6	1	0	0	0	1	0	11
	1200	...	1006·0	...	1016·0	71·6	56·9	42·2	9·2	...	35	...	1·0	...	9	4	1	2	1	2	5	3	4
Jacobabad	0000	183	1009·7	...	1016·6	48·8	43·7	36·7	7·5	...	58	...	1·1	...	5	1	8	4	2	0	0	3	8
	0300	...	1011·6	—0·3	1018·5	48·5	43·3	36·1	7·2	—1·0	62	—8	1·8	—0·3	1	0	8	1	1	0	2	3	15
	1200	...	1008·5	...	1015·1	70·8	57·1	43·2	9·8	...	39	...	2·0	...	6	0	4	6	3	0	0	9	3

(R)—Register not received.

(b) Mean of 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY 1951 *(contd.)*

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest Gpkm level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	mbs.	mbs.	%	%	Oktas										
Sukkur	0300	221	1009·7	—1·0	1017·9	49·8	45·6	40·5	8·6	+0·9	71	+10	2·1	+0·5	2	4	4	15	1	1	0	0	4
	1200	...	1006·9	...	1014·7	70·7	56·1	41·3	8·8	...	34	...	1·5	...	5	5	4	4	1	6	1	2	3
Pad Idan	0000	153	1010·7	...	1016·5	43·8	41·5	38·3	7·8	...	80	...	0·5	...	17	6	0	0	1	1	0	3	2
	0300	...	1012·4	...	1018·1	43·9	41·4	38·5	7·8	...	80	...	1·3	...	8	4	3	0	2	1	1	5	7
	1200	...	1009·9	...	1014·9	72·5	56·6	39·7	8·3	...	31	...	0·8	...	11	7	0	3	1	1	1	3	4
SIND (LOWER)																							
Umarkot	0000	55	1009·1	...	1011·1	45·2	41·1	35·2	6·9	...	68	...	0·0	...	12	1	3	2	2	0	1	5	5
	0300	...	1010·6	...	1012·5	53·1	49·3	44·9	10·2	...	73	...	0·0	...	3	3	2	2	1	1	0	4	15
	1200	...	1008·6	...	1010·6	75·9	69·0	66·2	21·1	...	69	...	0·0	...	6	2	0	1	1	2	3	7	9
Chhor	0000	19	1014·6	...	1015·3	45·3	41·2	34·9	7·0	...	68	...	0·3	...	2	2	1	0	0	0	0	0	24
	0300	...	1016·5	...	1017·1	47·2	41·6	32·8	6·5	...	57	...	0·8	...	1	5	4	0	1	1	0	1	15
	1200	...	1013·0	...	1013·7	75·7	58·5	41·2	9·0	...	30	...	1·0	...	6	15	0	0	0	2	3	1	2
Hyderabad	0000	96	1011·8	...	1015·4	52·3	47·2	40·0	8·8	...	66	...	0·6	...	18	0	0	1	1	0	0	0	10
	0300	...	1014·6	—0·2	1018·0	53·1	47·1	40·2	8·3	—0·1	66	+6	1·3	—0·5	19	2	0	2	2	0	0	6	8
	1200	...	1011·2	...	1014·6	74·1	56·9	38·2	8·1	...	28	...	0·5	...	9	9	1	2	0	5	0	0	6
Air Port Karachi (Air Port) †	0000	73	1012·7	...	1015·4	52·9	48·3	42·2	9·6	...	70	...	0·5	...	8	7	0	0	0	0	0	3	12
	0300	...	1014·7	...	1017·4	52·9	47·8	40·9	9·2	...	67	...	1·2	...	10	3	0	0	0	0	0	1	12
	1200	...	1011·7	...	1014·5	74·4	60·2	45·9	11·3	...	40	...	0·9	...	2	4	3	1	6	10	2	2	6
Karachi (Manora)	0000	13	1014·7	...	1015·2	61·0	56·3	51·3	13·4	...	73	...	0·8	...	0	17	1	0	0	0	1	2	12
	0300	...	1016·4	—1·0	1016·9	60·1	55·3	50·6	12·8	+2·2	72	+10	1·5	—0·8	0	15	2	0	0	0	1	0	12
	1200	...	1013·8	...	1014·3	73·4	61·3	59·5	13·2	...	47	...	0·9	...	0	2	1	1	1	10	14	1	1
Badin	0000	31	1014·7	...	1015·5	49·5	45·0	38·7	8·2	...	67	...	0·0	...	22	0	0	0	0	2	1	0	7
	0300	...	1015·9	—0·7	1017·0	49·9	45·5	39·7	8·4	+0·5	68	+10	0·0	—1·8	16	3	0	0	1	3	3	3	3
	1200	...	1014·0	...	1014·8	77·0	57·6	36·0	7·4	...	24	...	0·2	...	19	3	1	0	1	3	2	1	1
HILL STATIONS excluding Kashmir and Baluchistan																							
Murree	0000	7,113	...	Observations not recorded during winter months.																			
	0300	...	783·5	—0·9	795·8	33·0	29·6	23·2	4·3	—0·4	67	+7	5·3	+1·5	0	4	7	10	1	0	1	2	5
	1200	...	783·0	...	795·2	36·5	32·2	25·0	4·6	...	63	...	4·9	...	1	1	10	8	0	0	0	2	5
Cherat	0000	...	..	Observations not recorded during winter months.																			
	0300	4,272	871·8	—0·5	902·2	41·4	35·5	24·1	4·7	—0·1	55	+2	3·2	—0·1	13	1	1	2	4	0	0	3	6
	1200	...	870·8	...	900·8	45·9	39·0	27·5	5·4	...	53	...	3·4	...	19	1	0	2	5	1	0	1	1
Drosh	0000	4,806	856·5	...	904·7	33·2	30·4	24·6	4·7	...	72	...	4·3	...	0	0	1	0	0	0	0	0	29
	0300	...	857·3	—0·6	905·6	33·7	29·7	21·0	4·0	—1·3	63	—13	5·6	+1·8	0	1	3	2	0	1	0	0	23
	1200	...	854·7	...	902·0	41·3	35·5	23·8	4·7	...	54	...	4·8	...	0	0	5	6	1	0	1	0	13
Parachinar	0000	5,673	826·5	...	794·7	31·3	27·4	22·9	4·2	...	71	...	2·7	...	13	3	0	0	0	1	1	3	19
	0300	...	827·7	—0·2	795·1	32·6	29·5	24·4	4·4	—0·5	72	+3	4·0	+0·7	13	1	1	0	0	1	0	1	15
	1200	~~4,456~~	826·2	...	795·0	45·4	36·4	22·1	4·1	...	40	...	4·5	...	0	5	1	13	1	2	0	4	14
Wana*	0000	4,456																					
	0300																						
	1200																						

*Data rejected

†Same observatory was previously designated as "Karachi (Drig Road)."

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JANUARY 1951

Concld.—

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure			Mean temperature of the air & humidity							Total Cloud amount		Wind direction, Number of observations from :								
			Stn. level reduced to standard temp. and gravity	Departure from normal	Reduced to standard temp. & M.S.L. or nearest GPkm level	Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	mbs.	mbs.	%	%	Oktas										
AFGHANISTAN																							
Jalalabad	0300	1,950	942·4	...	1012·4	43·6	40·4	36·2	7·2	...	77	...	3·6	...	1	0	0	0	0	2	10	5	13
	1200	...	939·3	...	1007·1	58·7	53·3	48·7	11·7	...	69	...	4·3	...	0	0	2	1	0	3	5	3	17
Kabul	0300	5,955	821·7	...	799·2	20·8	18·5	13·7	2·6	—0·6	74	+1	4·2	+0·5	4	1	1	0	5	5	5	6	4
	1200	...	820·9	...	798·6	35·1	31·1	25·2	4·5	...	71	...	4·6	...	6	6	0	1	0	1	5	4	8
Kandahar	0300	3,462	898·3	...	902·0	33·1	31·6	29·3	5·4	...	85	...	2·5	...	0	1	0	0	0	1	0	0	29
	1200	...	896·3	...	899·8	56·7	46·4	34·1	6·8	...	45	...	2·4	...	0	3	0	0	0	7	0	1	20
IRAN																							
Jask	0300	13	1016·1	...	1016·4	63·5	65·7	51·4	11·7	...	67	...	2·2	—0·4	17	11	2	0	0	0	0	0	1
	1200	...	1014·6	...	1015·0	72·8	63·2	52·5	15·4	...	49	...	1·8	...	1	0	0	1	6	7	15	1	0
ARABIA																							
Muscat	0300	20	1016·6	...	1016·9	67·3	61·0	56·1	16·1	...	67	...	1·0	—1·5	0	0	0	1	2	5	12	5	6
	1200	...	1014·8	...	1015·1	71·3	64·3	58·8	17·4	...	66	...	0·2	...	0	0	0	0	0	9	2	14	6
Kuwait*	0500	16	1019·3	...	1019·7	55·4	56·7	50·4	12·4	...	84	...	1·9 (a)	...	2	0	0	6	1	2	1	17	2
	1200	...	1016·7	...	1017·1	62·9	57·7	52·7	14·0	...	72	...	1·4	...	2	1	5	4	0	0	3	15	1

(a) Mean of 30 days. *Observation recorded at 0500 hrs. G.M.T. instead 0300 hrs. G.M.T.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JANUARY, 1951.

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	visibily Code figure 93 or less		
																			Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (North)																					
Pabna	78·4	—0·7	85	17	52·9	+1·0	47	25	0·00	—0·40	0·00	...	0	—0·9	...	...	...	...	...	...	...
Rajshahi	...	...	...	...	...	...	...	...	0·00	—0·45	0·00	...	0	—1·0	...	...	...	...	...	...	...
Sirajganj	77·3	...	87	18	52·7	...	48	24, 25	0·35	—0·03	0·25	18	2	+1·2	2·3	...	0	0	3	0	0
Bogra	77·3	+1·5	81	16, 17	51·9	—0·2	46	26	0·25	—0·18	0·13	17	2	+1·0	1·4	+0·5	0	0	0	0	0
Dinajpur	78·5	+3·1	83	16	48·1	—1·5	43	24, 25, 30	0·00	—0·36	0·00	...	0	—0·9	1·1	0.0	0	0	2	0	0
Rangpur	...	...	...	...	...	...	...	...	0·05	—0·29	0·05	17	0	—0.8	...	...	0	0	13	0	0
EAST PAKISTAN (East)																					
Cox's Bazar ...	79·2	—0·4	84	16	55·2	—1·0	50	26, 30	0·00	—0·14	0·00	...	0	—0·3	1·3	—0·2	0	0	0	0	0
Chittagong ...	79·3	+0·5	83	16, 18, 19	54·5	—0·5	48	26	0·00	—0·24	0·00	...	0	—0·4	3·0	—0·7	0	0	0	0	0
Comilla	*	...	...	...	*	...	...	...	0·00	—0·32	0·00	...	0	—0·8	1·5	+0·4	0	0	0	0	0
Narayanganj ...	80·3	+2·4	83	4 days	54·5	—1·0	50	25, 26	0·00	—0·32	0·00	...	0	—0·8	1·4	+0·3	0	0	2	0	0
Brahmanbaria ...	79·3	+0·9	85	21	53·8	+2·3	48	25	0·00	—0·22	0·00	...	0	—0·7	1·1	...	0	0	5	0	0
Srimangal ...	78·1	—1·4	82	1	45·8	—1·7	41	24, 25	0·05	—0·37	0·05	18	0	—1·0	0·3	—1·1	0	0	1	0	0
Mymensingh ...	77·3	+1·2	84	2	48·4	—5·2	43	20, 21	0·00	—0·32	0·00	...	0	—0·9	1·0	+0·3	0	0	1	0	0

*Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JANUARY, 1951—*Contd.*

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date*	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibly Code figures 93 or less		
																			Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (DELTAIC)																					
Faridpur	70·8	—5·1	77	17	52·5	0·0	48	25, 31	0·00	—0.43	0·00	...	0	—0·9	2.1	+0·6	0	0	0	0	0
Barisal	78·2	+0·4	83	17	54·3	—1·1	49	26	0·00	—0.42	0·00	...	0	—0·7	1·8	+0·7	0	0	0	0	0
Khulna	78·4	—0·1	85	18	55·7	+0·5	51	4 days	0·00	—0.44	0·00	...	0	—0·8	1·6	—0·1	0	0	2	0	0
Jessore	77·3	—1·3	83	16	48·7	—0·5	42	25	0·00	—0.37	0·00	...	0	—0·9	1·7	+0·7	0	0	4	0	0
Satkhira	78·3	—1·9	85	16	54·2	+1·4	47	25, 29 30	0·00	—0.38	0·00	...	0	—0·9	1·6	+0·6	0	0	1	0	0
KASHMIR																					
Srinagar*																					
Gulmarg*																					
Sonamarg*																					
Dras*																					
Leh*																					
Skardu*																					
Gilgit*																					
Misgar	27·0	...	31	25	†	†	†	†	0·41	...	0·20	11	2	...	2·5	...	...	...	...	...	...
Jammu*																					
Kargil*																					
Gurez*																					
NORTH PUNJAB																					
Lahore	66·8	—1·2	74	29	41·1	+1·0	35	1	1·07	+0·03	0·31	31	4	+2·0	2·3	+1·2	2	1	1	0	0
Sialkot	65·0	—0·6	73	28	43·7	+1·5	37	23	0·75	—1·21	0·39	13	3	+0·1	1·1	+0·2	1	0	0	0	0
Jhelum	64·7	...	71	2, 4	38·6	...	33	5 days	1·80	...	0·89	13	4	...	1·4	...	0	0	0	0	0
Rawalpindi ...	63·1	+0·8	71	4	36·5	—1·4	30	23, 24	3·29	+0·80	3·05	13	2	—1·8	1·6	0·0	0	0	0	0	0
Khushab	67·8	+0·1	80	2	41·0	+0·3	34	1	0·49	—0·20	0·20	20	3	+1·5	2·5	+0·3	1	0	0	0	0
Lyallpur	66·2	—0·9	71	2, 4	40·5	+0·6	35	23	0·50	+0·10	0·35	13	1	0·0	1·8	+0·5	2	0	2	0	0
SOUTH PUNJAB																					
Montgomery ...	66·7	—1·4	72	2	42·5	+0·8	34	20	0·12	—0·34	0·11	19	1	—0·3	0·6	—1·3	0	0	1	0	0
Multan	68·2	+0·2	73	3, 4, 26	42·3	+0·3	35	20	0·00	—0·37	0·00	...	0	—1·2	2·1	+1·1	0	0	1	0	0
Fort Abbas ...	70·8	...	81	28	39·4	...	34	1	0·10	...	0·10	13	1	...	3·7	...	0	0	0	0	1
Bahawalpur ...	70·2	+0·3	75	2, 3	42·3	+2·0	36	20	0·00	—0·16	0·00	...	0	—0·6	1·5	—0·2	0	0	0	0	0
Khanpur	72·2	+0·3	77	28	42·2	+2·3	37	1	0·00	—0·23	0·00	...	0	—0·8	3·9	+0·5	0	0	1	0	0
N.-W.F.P. (UPPER)																					
Chakdara ...	57·7	...	66	26	35·9	...	29	2	1·79	...	0·62	7	5	...	1·9	...	0	0	0	0	0
Peshawar	63·3	+0·3	70	1	37·5	—2·9	31	20	0·27	—1·17	0·12	7, 28	2	—0·9	2·3	+1·1	1	0	0	0	0
Landikotal ...	52·7	...	60	3, 4, 26	30·7	...	21	20	0·42	...	0·18	7, 27	2	...	2·0	...	0	0	0	0	0
N.-W. F. P. (LOWER)																					
Bannu	65·2	—0·3	71	16	40·1	+0·2	35	20, 21	0·15	—0·37	0·10	29	1	—0.2	2·6	...	0	0	0	0	0
Miranshah (†)					(n)																
D. I. Khan ...	67·8	—0·2	73	1, 2, 16	39·5	—0·8	...	...	0·15	—0·30	0·15	19	1	—0.2	1·0	0·0	0	0	0	0	0
BALUCHISTAN (NORTH)																					
Fort Sandeman ...	57·2	+2·5	67	25	30·4	—0·2	25	15, 21	0·00	—0.72	0·00	...	0	—2·1	2·2	+0·6	0	0	0	0	0
Hindubagh ...	54·4	...	66	2	28·5	...	19	20	0·83	...	0·62	6	1	...	6·0	...	0	0	0	0	0
Loralai	57·8	...	65	23, 24	25·8	...	19	11	0·00	—0.76	0·00	...	0	—1·9	3·4	...	0	0	0	0	0
Harnai	...	...	...	...	...	...	...	...	0·36	—0.53	0·33	...	1	—1·0	...	...	...	...	...	...	...
Sibi	72·3	+2·2	79	27	43·6	+1·6	38	15, 17	0·02	—0.42	0·02	6	0	—1·1	1·3	—0·8	0	0	0	0	1

(n) mean for 17 days

(*) Data not available. (†) Data rejected.

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
...etta	51·0	...	65	25	27·0	...	20	1, 15	0·83	...	0·51	6	2	...	4·5	+2·3	0	0	0	0	1
...etta (Sumangli) ...	52·9	...	65	25	23·9	...	17	17	0·88	...	0·41	6	4	...	4·4	...	0	0	0	0	0
...man	56·7	+4·3	69	25	35·5	+1·0	25	13	0·48	—1.16	0·20	6	2	—2·4	4·5	+0·8	0	0	0	0	0
...hki	63·5	...	74	26	40·5	...	32	13, 20	0·28	...	0·12	6	2	...	5·3	...	0	0	0	0	0
...at	51·0	+1·5	60	25	25·2	—0·7	16	13	0·04	—1.27	0·04	6	0	—3·5	5·1	+1·4	0	0	0	0	0
...bandin ...	65·9	+4·4	78	25	34·0	—1·3	25	13	0·43	—0.45	0·38	6	1	—1·1	3·4	+0·6	2	0	0	0	0
...kundi ...	68·8	+5·4	80	25, 26	40·4	+2·1	26	13	0·02	—0.87	0·02	6	0	—2·0	3·7	—1·2	0	0	0	0	0
...ALUCHISTAN (South)																					
... Bela (R) ...																					
...nara	73·9	+0·1	78	20	56·4	—0·1	48	16	0·53	—1·02	0·52	6	1	—0·8	4·2	+0·2	0	0	1	0	0
...ni	74·6	+0·1	81	19	54·6	—0·1	47	16	1·37	—0·58	0·97	6	2	—0·3	6·6	+1·6	0	0	0	0	0
...bat	✕	...	...	...	52·9	...	45	16	1·74	...	0·43	7	2	...	3·7	0·0	0	0	0	0	0
...jgur	64·0	+1·1	72	26, 27	38·1	—0·5	30	16	0·34	—0·49	0·34	11	1	—0·9	3·8	—0·6	0	0	0	0	0
SIND (Upper)																					
...i	74·7	...	79	2, 26, 27	38·5	...	34	20, 23 24	0·00	...	0·00	...	0	...	2·7	...	1	0	1	0	0
...obabad ...	72·9	+1·5	79	27	44·9	0·0	38	16	0·00	—0·23	0·00	...	0	—0·7	3·3	+0·7	0	0	0	0	0
...kur	74·1	+1·8	80	1, 28	46·2	+1·2	40	13	0·00	—0·18	0·00	...	0	—0·4	2·3	—0·1	0	0	1	0	0
...Idan	73·3	...	80	27	40·1	...	31	15	0·00	...	0·00	...	0	...	3·3	...	0	0	0	0	0
SIND (Lower)																					
...arkot	79·1	...	84	27	43·0	...	36	4	0·00	...	0·00	...	0	...	✕	...	0	0	0	0	0
...or	*	...	...	...	42·3	...	35	2, 3, 4	0·00	0·00		...	0	...	2·7	...	0	0	1	0	0
...erabad ...	76·5	+0·7	84	27	49·2	—1·4	42	10, 13	0·00	—0·17	0·00	...	0	—0·5	2·4	—1·2	0	0	0	0	0
...achi (Air Port)‡	77·4	...	81	8	49·5	...	43	13	0·00	...	0·00	...	0	...	3.4	...	0	0	1	0	0
...achi (Manora) ...	76·4	+0·9	80	4	57·8	+0·4	53	15	0·00	—0·46	0·00	...	0	—1·0	4.2	—1·2	0	0	0	0	0
...in	79·6	+3·3	89	28	47·6	+0·4	41	2	0·00	—0·15	0·00	...	0	—0·4	3.5	...	0	0	0	0	0
HILL STATIONS (excluding Kashmir and Baluchistan																					
...ree	42·4	—2·8	52	3, 25	29·4	—1·3	18	20	5·47	+1·68	1·10	19	11	+4·9	6·2	+1·2	0	0	7	0	0
...rat	50·0	+0·8	60	3	37·6	—1·3	29	20	0·38	—1·95	0·13	28	2	—1·5	*	...	0	1	2	0	0
...sh	44·7	—1·0	54	3, 4	31·5	+0·1	24	20	3·54	+2·17	1·46	7	8	+4·6	2·6	+0·1	0	0	0	0	0
...chinar ...	50·5	+0·7	59	3, 4	28·8	+0·2	20	20	2·36	+0·33	0·88	28	5	+0·4	2·3	+0·6	1	1	0	0	0
...na*																					
AFGHANISTAN																					
...labad	61·1	...	68	26	36·2	...	27	20	0·44	...	0·44	28	1	...	1.3	...	0	0	0	0	0
...ul	39·4	+2·2	55	2, 3	15·8	—3·8	0	20	1·84	+0·55	0·45	27	6	+2·9	2·9	—0·2	0	0	1	0	0
...dahar ...	61·0	...	72	25	28·5	...	22	28	0·62	...	0·48	6	2	...	1·3	...	0	0	0	0	0
IRAN																					
...k	75·9	+4·1	79	19	61·3	+0·8	54	12, 14	0·16	—1·01	0·16	9	1	—1·1	6·4	—0·7	0	0	0	0	3
ARABIA																					
...eat	73·9	—1·4	81	6	65·7	—0·9	61	17	0·00	—0·98	0·00	...	0	—1·6	4·2	+0·7	0	0	0	0	0
...wait (†) ...	61·4	...	71	4	51·7	...	39	28	0·90	...	0·52	8	3	...	6·6	...	0	0	0	0	0

(R) Register not received.

(*) Data rejected.

(†) Observations recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T.

‡Same observatory was previously designated as "Karachi (Drigh Road)".

× Data not available

PK.—H 33 Met. Service—4-7-57—200

Regd. No. S—1452

PAKISTAN WEATHER REVIEW, 1951

MONTHLY WEATHER REPORT

FEBRUARY

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Chief Features. —(1) Two active western disturbances affected West Pakistan during the first eleven days of the month causing widespread precipitation in the northern regions and north Baluchistan, followed by severe spells of cold weather in West Pakistan.

(2) Dry Weather over East Pakistan.

West Pakistan.—The western depression of the previous month which lay about 80 miles southwest of Jhelum on the 1st was very active. It caused marked spell of wet weather over the upper North-West Frontier Province and the north Punjab, and the out-break of polar continental air into the lower North-West Frontier Province, Baluchistan and the adjoining areas. On the the 2nd depression filled up resulting in further advance of severe cold wave into the rest of West Pakistan and the adjoining Indian regions. Night temperatures were generally below freezing point in north Baluchistan and the upper North-West Frontier Province on the 1st and over entire West Pakistan outside Sind-Mekran coast and plains of the Punjab (where temperatures below 40°F were recorded) on the 2nd and 3rd. They rose in Baluchistan and Sind thereafter.

Three western disturbances moving across West Pakistan in rapid succession thereafter, were responsible for an extensive clouding in northeast Baluchistan and the north Punjab on the 3rd and a few falls of rain/snow in Baluchistan from 4th to 6th.

An extensive western depression moving through Iran approached north Baluchistan and Afghanistan on the 7th with it's secondary off Mekran coast. The depression moved away northeast-wards across the North-West Frontier Province, the north Punjab and Kashmir by the 10th while its secondary off Mekran coast filled up by the 8th night. This system was responsible for : (I) marked spell of wet weather over Baluchistan, the North-West Frontier Province and the Punjab between the 7th and 11th, (II) thunderstorms over the North-West Frontier Province and the north Punjab between the 9th and 11th and duststorms/drizzle over the rest of West Pakistan outside lower Sind and (III) a cold wave which affected West Pakistan except the plains of the north Punjab on the 10th and 11th.

Western disturbances which moved across West Pakistan thereafter were less active and did not cause any appreciable precipitation. Some of the noteworthy amounts of rainfall recorded during the month were :—Drosh, Chakdara and Cherat 1" each on the 1st ; Cherat 1½" on the 2nd ; Hinadubagh 2" on the 7th; Pasni 3", Drosh, Chakdara and Kalat 1" each on the 9th ; Murree 1" on the 2nd and 11th.

The mean actual rainfall during the month was in moderate excess in south Baluchistan, in slight defect in north Baluchistan, in *moderate* defect in the upper North-West Frontier Province and in large defect in the Punjab, the lower North-West Frontier Province and upper Sind. No rain fell in lower Sind. Averaged over the plains of West Pakistan it was in large defect.

The mean maximum temperature was normal over the region. The mean minimum temperature was normal in the north Punjab and the lower North-West Frontier Province and below normal elsewhere. Mean relative humidity was normal in the north Punjab, north Baluchistan and upper Sind and in defect elsewhere. Skies were normally clouded in the lower North-West Frontier Province, Baluchistan and upper Sind and less clouded than usual elsewhere.

East Pakistan. —No rain fell over the region throughout the month.

The mean maximum temperature was above normal in the Northern and Eastern sub-divisions and normal in the Deltaic sub-division. The mean minimum temperature was normal over the region. The mean relative humidity was in defect in the Northern sub-division and normal elsewhere. Skies were less clouded than usual.

Table I contains the Divisional and Sub-Divisional means of rainfall, temperature, humidity and cloud for the 5 Chief Divisions and 12 Sub-Divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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TABLE I—DIVISIONAL AND SUB-DIVISIONAL MEANS FEBRUARY, 1951.

Sub-Division.	Precipitation.				Departure from Normal of				
							0300 Hrs. G. M. T.		
	Actual.	Normal.	Departure from normal.	Percentage departure from normal.	Maximum temperature.	Minimum temperature.	Vapour pressure.	Relative humidity.	Cloud.
1	2	3	4	5	6	7	8	9	10
	Inches	Inches	Inches		°	°	m b.	%	
East Pakistan (North)	0·00	0·75	—0·75	—100	+4·1	—1·1	—1·9	—14	—1·4
East Pakistan (East)	0·00	1·06	—1·06	—100	+2·3	—0·7	+0·1	+1	—1·1
East Pakistan (Deltaic)	0·00	1·08	—1·08	—100	+1·3	0·0	+0·6	0	—1·2
Kashmir*	...	...	...	...	...	...	...	...	...
North Punjab	0·59	1·42	—0·83	—58	+1·2	—0·8	—1·3	—5	—1·2
South Punjab	0·11	0·36	—0·25	—69	+0·3	—2·0	—2·4	—11	—0·8
N.-W.F.P. (Upper)	0·92	1·53	—0·61	—40	+1·0	—2·3	—2·1	—18	—2·4
N.-W.F.P. (Lower)	0·25	0·93	—0·68	—73	+1·1	—1·5	—2·8	—23	—0·5
Baluchistan (North)	0·97	1·10	—0·13	—12	—1·0	—3·2	—0·7	—1	—0·3
Baluchistan (South)	1·96	1·52	+0·44	+29	—0·9	—2·9	—2·3	—12	—0·4
Sind (Upper)	0·01	0·31	—0·30	—97	+0·2	—3·1	—2·3	—3	0·0
Sind (Lower)	0·00	0·35	—0·35	—100	+1·6	—2·8	—3·4	—11	—0·8
DIVISION									
East Pakistan	0·00	0·96	—0·96	—100	+2·3	—0·5	—0·1	—2	—1·1
Mean of East Pakistan	0·00	0·96	—0·96	—100	+2·3	—0·5	—0·1	—2	—1·1
Punjab	0·35	0·89	—0·54	—61	+0·8	—1·4	—1·9	—8	—1·0
N.-W.F.P.	0·38	1·13	—0·75	—66	+1·1	—1·8	—2·6	—21	—1·1
Baluchistan	1·24	1·21	+0·03	+2	—0·9	—3·1	—1·2	—5	—0·4
Sind	0·00	0·33	—0·33	—100	+1·0	—2·9	—3·0	—8	—0·5
Mean of West Pakistan excluding Baluchistan	0·24	0·74	—0·50	—68	+0·9	—2·0	—2·4	—10	—0·8

*Data incomplete

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level.	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from:— N	NE	E	SE	S	SW	W	NW	calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
EAST PAKISTAN (North)	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Octas.	Octas.									
Pabna	0300	...	...	...	...	68·6	60·5	55·0	14·7	—1·2	61	—9	...	...	...	...	...	...	...	...	...	...	...
Sirajganj	0000	49	1008·5	...	1010·3	56·3	54·0	51·4	12·9	...	85	...	0·1	...	1	0	0	1	3	4	2	2	15
	0300	...	1011·1	...	1012·9	66·7	60·0	53·9	15·1	...	65	...	0·4	...	2	1	0	4	3	2	4	5	7
	1200	...	1007·1	...	1008·8	75·3	65·1	57·6	16·6	...	55	...	0·0	...	0	0	0	0	1	1	1	0	25
Bogra	0000	*65	1008·8	...	1011·0	56·2	52·4	48·3	11·4	...	76	...	0·2	...	0	0	0	0	0	1	0	0	27
	0300	63	1009·7	—3·3	1011·9	65·8	57·3	49·5	12·3	—2·4	57	—15	0·3	—1·6	0	1	6	0	0	8	3	5	5
	1200	[illegible]	1006·0	...	1008·2	80·7	61·6	43·7	10·4	...	29	...	0·0	...	0	0	0	0	0	14	5	1	8
Dinajpur	0000	123	1007·2	...	1011·6	53·5	50·4	47·1	10·9	...	80	...	0·4	...	0	0	0	0	0	0	1	0	27
	0300	...	1009·3	—1·5	1013·7	66·3	57·4	48·6	11·9	—2·1	54	—19	0·7	—1·2	1	2	1	0	0	1	8	0	15
	1200	...	1005·3	...	1009·6	77·1	62·0	48·7	12·2	...	39	...	0·0	...	0	0	0	0	0	1	4	1	22
EAST PAKISTAN (East)																							
	0000	38	1010·5	...	1011·9	58·5	57·0	55·0	15·5	...	89	...	0·1	...	0	0	0	0	0	0	0	0	28
Cox Bazar ...	0300	...	1012·3	—1·3	1013·7	69·0	63·4	59·5	17·5	—0·9	73	+4	0·7	—0·8	2	0	0	0	0	0	0	1	25
	1200	...	1009·4	...	1010·7	74·4	66·8	62·0	18·8	...	67	...	0·0	...	1	0	0	0	0	0	1	1	25
Chittagong ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	87	1010·7	—1·9	1013·7	68·5	63·8	59·2	18·7	+1·4	73	+2	0·3	—1·5	0	6	6	4	0	0	0	0	12
	1200	...	1007·1	...	1010·1	71·3	68·1	63·7	22·0	...	70	...	0·1	...	2	0	0	0	2	12	6	3	3
Comilla	0000	29	1010·5	...	1011·5	59·5	58·5	57·5	16·0	...	94	...	0·0	...	3	1	0	1	9	1	0	0	13
	0300	...	1012·3	—2·2	1013·3	67·3	63·1	60·4	17·9	+0·2	79	+8	1·8	—0·4	4	1	0	4	14	0	0	2	3
	1200	...	1008·6	...	1009·6	78·0	67·0	59·1	17·6	...	55	...	0·3	...	1	2	0	0	10	4	3	2	6
Narayanganj	0000	26	1010·4	...	1011·3	60·4	58·4	56·5	15·6	...	88	...	1·5	...	1	0	0	0	4	4	3	7	9
	0300	...	1012·0	—2·4	1013·0	70·6	62·8	57·0	16·1	—0·6	63	—8	1·0	—1·5	2	1	0	0	4	8	4	8	1
	1200	...	1008·1	...	1009·0	77·1	64·0	54·1	14·5	...	45	...	0·1	...	0	0	0	0	4	1	1	2	20
Brahmanbaria	0000	32	1011·0	...	1012·1	58·8	58·1	56·0	16·5	...	91	...	1·2	...	0	0	1	1	6	0	1	0	19
	0300	...	1012·6	...	1013·7	70·8	64·0	57·1	17·2	+1·3	64	—3	0.8	...	3	0	0	1	7	2	1	3	11
	1200	...	1008·5	...	1009·6	76·9	63·9	54·0	14·5	...	47	...	0·0	...	0	0	0	0	1	0	0	0	27
Srimangal	0000	69	1009·3	...	1011·8	51·6	51·0	50·3	12·8	...	95	...	1·5	...	1	0	0	0	2	0	0	0	25
	0300	...	1011·4	—1·6	1013·9	65·3	60·9	57·8	16·0	+0·4	77	0	1·6	—0·5	0	0	0	3	2	0	0	0	23
	1200	...	1007·5	...	1009·9	72·2	65·1	59·9	17·9	...	66	...	0·5	...	0	0	0	0	1	0	2	0	25
Mymensingh	0000	62	1009·6	...	1011·9	58·1	55·9	55·1	14·4	...	89	...	0·6	...	0	0	0	0	0	0*	0	0	28
	0300	...	1011·5	—1·9	1013·7	63·7	58·8	55·3	14·8	—0·7	75	+1	1·0	—1·3	0	0	0	2	1	0	2	0	23
	1200	...	1009·5	...	1009·7	74·7	60·5	47·3	12·0	...	41	...	0·0	...	0	0	0	0	0	0	0	0	28
EAST PAKISTAN (Deltaic).																							
	0000	46	1010·3	...	1011·8	57·6	57·0	56·0	15·9	...	95	...	1·0	...	0	0	7	1	0	0	0	0	20
Faridpur	0300	...	1011·9	—1·6	1013·5	68·7	64·8	61·9	19·3	+3·0	79	+5	0·3	—1·7	1	1	13	8	1	0	0	0	4
	1200	...	1008·5	...	1010·1	79·5	71·5	66·8	22·3	...	69	...	0·0	...	0	0	5	4	0	0	0	0	19
Barisal	0000	11	1010·8	...	1011·2	61·5	59·9	58·5	16·7	...	91	...	1·7	...	0	0	0	0	1	4	0	1	22
	0300	...	1013·2	—1·5	1013·6	68·6	63·5	59·4	18·1	—0·4	74	+1	1·7	—0·4	4	3	0	1	2	5	4	5	4
	1200	...	1009·3	...	1009·7	79·3	65·8	56·3	15·4	...	46	...	0·1	...	0	0	0	0	3	0	0	0	25
Khulna	0000	16	1012·6	...	1013·1	61·7	59·6	57·7	16·8	...	88	...	0·6	...	0	0	0	0	0	2	0	0	26
	0300	...	1013·4	—1·4	1014·0	70·7	63·3	57·4	16·6	+0·1	65	—1	0·8	—1·7	2	3	0	0	1	7	3	4	8
	1200	...	1010·1	...	1010·7	76·8	64·7	55·9	15·7	...	49	...	0·0	...	0	0	0	0	8	3	2	0	15
Jessore	0000	26	1010·9	...	1011·8	56·0	55·0	53·9	14·3	...	93	...	1·7	...	0	1	0	1	4	6	0	0	16
	0300	...	1012·7	—1·9	1013·6	67·7	61·8	56·9	16·3	—0·1	70	—1	0·7	—1·5	3	4	0	0	6	5	4	1	5
	1200	...	1008·7	...	1009·6	77·1	64·0	54·0	14·5	...	46	...	0·0	...	1	0	0	0	0	0	4	0	23
Satkhira	0000	16	1010·7	...	1011·3	60·9	59·1	57·1	16·2	...	89	...	1·5	...	4	0	0	1	0	6	1	1	15
	0300	...	1012·6	—2·0	1013·2	68·5	63·2	57·7	17·5	+0·4	72	—2	1·8	—0·6	8	1	0	1	0	11	1	5	1
	1200	...	1009·2	...	1009·8	79·0	65·6	58·4	15·4	...	52	...	0·7	...	1	0	0	2	0	1	0	2	22

*Observations at 0000 Hours recorded from a distant site by P.E.O. Staff.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Feet.	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%	Octas	Octas									
KASHMIR																							
Srinagar*	0000	5205																					
	0300																						
	1200																						
Gulmarg*	0000	8709																					
	0300																						
	1200																						
Dras*	0000	10059																					
	0300																						
	1200																						
Leh*	0000	11529																					
	0300																						
	1200																						
Skardu*	0000	7505																					
	0300																						
	1200																						
Gilgit*	0000	4890																					
	0300																						
	1200																						
Misgar	0000	10190	692·6	...	696·5	20·0	16·7	9·1	2·1	...	61	...	4·5	...	3	0	1	0	0	0	8	0	16
	0300	...	694·2	...	698·1	19·1	15·9	8·5	2·0	...	60	...	5·2	...	1	0	2	0	0	0	6	0	19
	1200	...	692·9	...	696·7	30·6	22·7	6·5	1·7	...	30	...	5·7	...	1	0	18	0	0	0	7	0	2
NORTH PUNJAB																							
Lahore	0000	702	988·7	...	1014·5	47·6	44·5	40·5	8·6	...	77	...	1·1	...	3	1	0	1	0	1	1	3	18
	0300	...	990·1	—0·6	1015·8	49·4	45·4	40·4	8·6	—1·1	71	—4	2·3	—0·8	4	2	0	1	0	0	5	6	10
	1200	...	988·4	...	1013·0	65·9	55·0	38·9	8·1	...	32	...	2·3	...	3	1	0	1	0	2	2	16	3
Sialkot	0000	830	983·7	...	1014·1	48·8	44·1	42·0	7·8	...	66	...	2·0	...	0	3	0	0	0	0	0	5	19
	0300	...	985·6	—0·6	1015·7	50·6	47·0	42·6	9·3	—1·3	74	—9	2·3	—0·3	0	4	0	1	0	0	0	10	13
	1200	...	983·5	...	1012·4	66·8	55·1	43·3	9·6	...	42	...	2·5	...	0	0	0	1	0	5	10	5	7
Jhelum	0000	765	986·7	...	1014·8	47·3	45·1	42·3	9·2	...	84	...	2·1	...	0	0	0	1	0	2	1	6	18
	0300	...	988·0	...	1016·0	48·8	45·3	41·7	8·7	...	78	...	2·4	...	0	0	0	2	0	2	6	6	12
	1200	...	986·2	...	1013·0	69·5	57·4	45·5	10·7	...	47	...	3·0	...	1	0	1	0	1	3	2	13	7
Rawalpindi...	0000	1676	956·0	...	1016·7	43·8	41·2	37·6	7·7	...	80	...	2·2	...	0	0	0	0	0	0	2	0	26
	0300	...	956·7	—0·5	1017·3	45·7	41·9	37·5	7·2	—1·3	69	—9	2·1	—1·2	1	0	0	0	0	0	3	0	24
	1200	...	954·9	...	1013·5	62·1	49·4	35·0	6·3	...	36	...	2·7	...	0	0	0	0	0	0	20	0	8
Khushab	0000	616	991·9	...	1014·6	48·0	42·9	35·7	7·1	...	63	...	0·8	...	1	2	2	1	1	1	4	4	12
	0300	...	993·5	—1·0	1016·2	48·3	43·0	35·2	7·1	—1·2	59	—6	1·7	—1·3	6	2	1	1	0	4	2	5	7
	1200	...	991·7	...	1013·2	71·4	55·4	37·9	7·8	...	29	...	2·0	...	5	6	1	2	0	1	5	4	4
Lyallpur	0000	605	991·8	...	1014·2	46·4	42·9	38·0	7·9	...	73	...	1·3	...	3	5	3	0	1	3	2	6	5
	0300	...	993·7	—0·2	1016·0	45·2	42·2	37·8	7·8	—1·5	76	+1	1·4	—2·4	2	2	1	1	2	2	5	4	9
	1200	...	992·4	...	1013·7	69·5	55·0	38·2	8·3	...	33	...	1·7	...	2	1	2	0	1	5	6	7	4
SOUTH PUNJAB																							
Montgomery	0000	558	994·0	...	1014·4	45·0	43·9	38·5	8·0	...	70	...	1·5	...	0	0	0	1	0	7	0	4	16
	0300	...	995·5	—0·5	1015·8	50·3	44·6	37·0	7·5	—2·5	61	—17	1·5	—0·9	0	1	0	1	0	7	0	6	13
	1200	...	993·9	...	1013·4	71·2	54·3	34·4	6·9	...	26	...	1·5	...	1	2	0	1	2	7	0	5	10
Multan	0300	413	1000·9	—0·4	1016·1	50·2	44·8	36·9	7·6	—3·1	61	—9	2·9	+0·4	7	1	0	1	0	0	0	8	11
	1200	...	998·8	...	1013·3	73·5	55·8	36·6	7·3	...	29	...	2·1	...	5	2	3	4	5	3	0	2	4
Fort Abbas	0000	475	996·9	...	1014·5	44·4	41·6	37·9	7·7	...	80	...	0·4	...	4	4	4	3	2	4	1	0	6
	0300	...	998·4	...	1015·9	48·4	43·8	37·4	7·7	...	68	...	1·2	...	3	6	4	4	0	1	1	2	7
	1200	...	996·2	...	1012·8	73·7	57·8	40·7	9·1	...	33	...	0·8	...	13	4	0	0	0	1	1	9	0
Bahawalpur	0300	384	1002·0	+0·3	1016·2	47·9	43·1	36·4	7·4	—2·1	63	—4	1·5	—1·1	1	2	1	4	2	1	0	0	17
	1200	...	999·7	...	1013·1	74·3	57·4	39·4	8·5	...	28	...	0·9	...	8	5	0	0	0	4	0	0	11
Khanpur	0300	297	1005·6	+0·8	1016·5	48·3	42·8	34·4	6·9	—2·0	59	—7	1·0	—1·5	7	3	4	1	2	0	1	3	7
	1200	...	1003·3	...	1013·7	77·3	57·3	33·4	7·1	...	21	...	1·5	...	3	7	3	0	1	3	4	6	1

(d) Mean of 27 days.

*Data not available.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level.	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mb.	Mb.	%	%	Octas.	Octas.									
N. W. F. P. (UPPER).																							
Chakdara	0000	2197	937·4	...	1017·5	43·2	39·4	34·2	6·7	...	69	...	0·9	...	4	0	5	1	3	0	0	0	15
	0300	...	938·1	...	1018·5	42·0	38·6	34·0	6·6	...	72	...	1·4	...	1	0	0	0	4	0	0	0	23
	1200	...	936·6	...	1013·9	59·9	48·4	36·7	6·5	...	36	...	2·2	...	1	2	4	1	3	0	0	3	14
Peshawar	0000	1175	973·6	...	1016·5	45·1	40·1	31·7	6·1	...	61	...	1·5	...	0	1	1	6	7	11	0	1	1
	0300	...	975·0	—0·7	1017·8	46·1	40·6	31·0	6·1	—2·1	58	—18	2·7	—2.4	1	1	0	5	11	6	1	0	3
	1200	...	972·8	...	1014·0	65·3	50·4	29·9	5·7	...	26	...	3·1	...	1	3	6	7	6	3	0	2	0
Landi Kotal	0000	3503	894·2	...	899·4	39·4	34·4	23·6	4·8	...	55	...	1·7	...	0	2	0	0	0	1	0	7	18
	0300	...	895·2	...	900·4	41·1	35·2	24·4	4·6	...	52	...	2·7	...	0	1	0	2	1	1	2	9	12
	1200	...	894·0	...	890·0	55·0	44·0	27·5	5·4	...	36	...	3·3	...	0	0	1	0	0	14	0	11	2
N.-W.F.P. (LOWER)																							
Bannu	0000	1263	969·7	...	1015·5	48·4	40·7	27·2	5·3	...	44	...	0·8	...	0	0	0	0	0	0	12	3	13
	1300	...	970·8	...	1016·7	48·7	40·9	26·9	5·2	—2·9	43	—23	2·4	—0·1	0	0	0	0	0	0	9	9	10
	1200	...	968·6	...	1012·8	67·5	49·9	24·6	4·5	...	21	...	3·0	...	0	0	4	10	4	1	0	0	9
Miranshah*	0000 0300 1200	3026																					
D. I. Khan	0000	570	994·5	...	1015·3	48·6	43·7	33·5	7·8	...	64	...	0·7	...	1	5	0	0	0	0	2	10	10
	0300	...	995·4	—0·7	1016·2	48·1	41·3	31·7	6·0	—2·7	49	—22	1·7	—0·9	2	1	0	1	0	0	5	7	12
	1200	...	992·3	...	1012·4	71·7	54·7	35·3	7·1	...	26	...	1·5	...	2	9	3	5	0	0	2	3	4
BALUCHISTAN (North).																							
Fort Sandman	0300	4614	860·8	+0·7	902·4	37·7	31·5	19·3	3·6	—2·2	46	—28	2·1	—0·6	0	0	0	0	0	1	0	0	27
	1200	...	858·6	...	898·4	58·0	43·1	17·0	3·5	...	29	...	2·5	...	0	0	0	1	0	2	1	3	21
Hindubagh	0000	5950	818·9	...	796·3	34·1	29·2	20·6	3·7	...	56	...	1·3	...	2	1	0	0	0	14	5	4	2
	0300	...	820·6	...	797·8	35·4	30·3	22·6	3·9	...	57	...	1·3	...	0	1	0	0	0	14	5	2	6
	1200	...	819·5	...	796·8	48·5	36·6	13·8	3·2	...	28	...	2·5	...	0	1	1	0	0	17	5	1	3
Loralai	0000	4699	856·6	...	901·3	34·7	30·1	18·6	4·0	...	57	...	2·5	...	0	1	0	0	0	12	10	0	5
	0300	...	856·8	...	901·5	34·0	29·5	22·0	3·7	...	56	...	0·6	...	0	0	0	0	0	11	4	3	10
	1200	...	856·3	...	898·7	57·1	42·0	20·0	3·1	...	19	...	0·6	...	0	2	2	9	3	2	1	6	3
Sibi	0000	441	998·7	...	1013·6	53·8	44·3	29·3	8·5	...	51	...	2·6	...	2	3	2	0	0	0	2	3	16
	0300	...	1000·3	+0·9	1015·2	53·5	44·1	29·4	8·0	+0·4	45	—6	2·2	—0·3	2	2	0	0	0	0	3	4	17
	1200	...	996·7	...	1011·5	75·4	55·4	30·0	8·3	...	19	...	2·2	...	3	0	4	6	3	2	3	5	2
Quetta	0000	5490	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	...	833·1	—0·5	796·2	33·0	31·1	30·0	5·2	—0·3	81	+6	2·7	—0·5	2	7	0	4	4	2	0	0	9
	1200	...	831·6	...	795·1	49·8	42·8	34·7	6·6	...	57	...	3·3	...	6	5	0	1	4	3	1	8	0
Quetta (Samungli)	0000	5253	842·1	...	796·5	29·0	26·8	22·6	4·5	...	76	...	2·7	...	1	1	4	2	0	3	1	2	14
	0300	...	843·1	...	797·7	31·5	29·3	25·3	4·6	...	73	...	2·7	...	2	0	3	5	1	2	2	3	10
	1200	...	841·5	...	797·6	50·5	43·0	34·9	6·7	...	54	...	3·8	...	3	1	2	1	2	1	6	10	2
Chaman	0000	4311	870·5	...	902·2	40·3	36·1	30·3	5·5	...	64	...	3·1	...	0	0	14	7	4	1	1	1	0
	0300	...	871·4	+1·3	903·0	40·2	35·0	30·4	4·8	—1·3	57	—4	3·1	0·0	0	2	10	9	4	1	1	0	1
	1200	...	870·6	...	901·5	53·6	44·4	27·2	6·4	...	45	...	4·4	...	4	1	0	2	4	5	5	7	8
Nushki	0000	3412	903·6	...	905·2	41·0	37·0	30·6	5·9	...	67	...	3·1	...	0	1	9	1	0	0	0	0	17
	0300	...	904·8	...	906·5	47·0	39·9	31·0	5·6	...	51	...	3·2	...	1	3	13	4	0	0	0	0	7
	1200	...	902·4	...	904·6	61·0	47·8	31·5	6·1	...	34	...	3·4	...	0	0	2	1	0	4	6	15	0
Kalat	0000	6616	799·4	...	796·7	30·9	28·2	22·7	4·4	...	75	...	0·9	...	0	0	1	0	3	3	1	0	20
	0300	...	800·3	+1·1	797·7	31·4	28·5	22·8	4·1	—0·7	71	+3	1·7	—1·1	1	0	1	4	9	3	0	1	9
	1200	...	799·2	...	796·6	50·1	40·3	26·3	4·9	...	40	...	1·7	...	9	0	0	0	2	7	3	6	1
Dalbandin	0000	2785	919·7	...	900·6	43·7	39·4	33·8	6·5	...	61	...	2·3	...	4	7	3	0	2	3	1	0	3
	0300	...	921·0	+1·8	901·8	41·7	37·8	32·2	6·2	—1·1	67	+1	2·6	0·0	2	10	3	0	1	0	1	1	10
	1200	...	918·7	...	900·3	64·2	50·9	35·9	7·2	...	37	...	2·8	...	0	5	7	4	2	5	3	0	3
Nokkundi	0000	2229	937·9	...	1017·5	47·2	42·1	35·5	7·0	...	64	...	1·6	...	4	9	2	0	1	0	0	5	7
	0300	...	939·2	...	1018·6	46·8	42·4	37·3	7·5	+0·1	67	+18	2·5	0·0	3	6	1	0	0	0	1	3	12
	1200	...	937·0	...	1013·5	67·5	55·4	42·2	9·8	...	44	...	2·8	...	2	1	2	3	5	3	1	3	6

(*) Data rejected.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level.	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%	Octas.	Octas.									
BALUCHISTAN (South)																							
Las Bela (R)	0000 0300 1200	292	...																				
Ormara	0000	15	1013·9	...	1014·1	62·4	57·4	51·8	13·6	...	71	...	0·9	...	0	0	4	4	0	2	4	0	14
	0300	...	1015·3	...	1015·8	62·6	57·4	53·4	14·0	—2·2	71	—11	1·5	—1·3	1	1	4	6	1	1	1	1	12
	1200	...	1012·5	...	1013·0	73·9	63·2	52·8	15·1	...	50	...	2·0	...	0	0	2	3	3	8	9	1	2
Pasni	0000	10	1015·0	...	1015·2	57·0	52·6	48·0	11·5	...	72	...	1·9	...	5	3	3	2	0	1	8	6	0
	0300	...	1015·8	+0·3	1016·0	59·5	53·6	47·0	11·3	—3·3	65	—16	1·9	—0·4	5	2	4	1	0	2	5	5	4
	1200	...	1013·5	...	1013·7	74·0	63·2	55·0	14·9	...	51	...	2·6	...	2	1	2	6	2	13	1	0	1
Turbat	0000	510	998·3	...	1016·6	58·9	51·1	40·3	9·8	...	55	...	1·3	...	0	5	8	3	0	0	1	0	11
	0300	...	1000·1	...	1018·5	58·9	50·3	38·1	9·0	...	51	...	1·6	...	1	6	10	4	2	0	0	0	5
	1200	...	996·7	...	1014·7	80·3	61·2	42·1	10·5	...	30	...	1·6	...	1	8	1	1	3	4	6	2	2
Panjgur	0000	3177	905·9	...	900·1	44·5	39·6	31·3	6·4	...	63	...	1·8	...	7	13	2	0	2	1	0	2	1
	0300	...	906·5	+0·5	900·6	43·9	39·1	30·5	6·3	—1·5	62	—10	2·5	+0·4	8	14	1	1	1	2	0	0	1
	1200	...	904·6	...	899·9	64·7	48·9	27·2	5·6	...	28	...	2·2	...	4	0	0	0	3	7	5	9	0
SIND (Upper)																							
Reti	0000	280	1005 1	...	1015·5	45·5	40·7	33·3	6·5	...	61	...	0·0	...	17	0	2	0	1	0	3	0	5
	0300	...	1006·8	...	1017·3	46·5	39·9	29·1	5·5	...	51	...	0·5	...	6	5	0	0	0	0	3	1	13
	1200	...	1004·1	...	1013·9	78·3	55·3	23·7	4·6	...	13	...	0·6	...	8	6	2	0	1	1	8	0	2
Jacobabad	0000	183	1007·9	...	1014·7	52·0	44·9	34·2	7·1	...	53	...	1·6	...	3	1	7	0	1	1	3	8	4
	0300	...	1009·8	+0·6	1016·6	52·7	45·2	34·4	7·0	—2·1	52	—7	2·0	0·0	2	0	3	5	0	1	3	5	9
	1200	...	1006·7	...	1013·2	76·6	58·4	39·5	8·6	...	29	...	1·9	...	3	1	5	5	2	0	1	11	0
Sukkur																							
	0300	221	1007·9	+0·9	1016·0	51·6	45·2	36·7	7·2	—2·5	59	+1	1·6	0·0	3	5	2	6	0	1	0	0	11
	1200	...	1005·2	...	1013·0	76·7	56·8	34·5	6·7	...	23	...	1·2	...	4	7	1	3	1	5	0	2	5
Padidan	0000	153	1008·8	...	1014·4	47·6	42·9	36·4	7·3	...	63	...	0·3	...	14	5	2	0	0	0	0	0	7
	0300	...	1010·5	...	1016·1	47·3	43·0	36·9	7·5	...	66	...	1·0	...	2	4	1	0	1	1	1	7	11
	1200	...	1007·7	...	1012·6	78·3	57·0	32·0	6·4	...	18	...	1·2	...	8	5	0	1	4	1	0	8	1
SIND (Lower)																							
Umarkot	0000	55	1011·1	...	1013·0	52·0	48·4	45·1	10·0	...	76	...	0·0	...	3	8	1	1	3	0	1	7	4
	0300	...	1013·1	...	1015·0	54·0	49·6	43·8	10·2	...	70	...	0·0	...	2	6	0	1	1	1	0	2	15
	1200	...	1010·1	...	1012·0	82·9	75·2	69·9	26·4	...	68	...	0·0	...	3	3	0	0	2	3	9	5	3
Chhor	0000	19	1012·7	...	1013·4	48·9	42·2	32·3	6·3	...	53	...	0·6	...	0	6	1	0	1	0	0	1	19
	0300	...	1014·3	...	1015·2	51·6	43·8	32·1	6·0	...	47	...	1·2	...	4	7	1	0	0	2	0	1	13
	1200	...	1011·2	...	1011·9	86·6	60·7	38·9	6·3	...	15	...	1·2	...	7	6	1	0	0	4	4	3	3
Hyderabad	0000	96	1009·8	...	1013·3	55·2	47·7	37·6	7·9	...	53	...	0·6	...	15	1	0	0	0	4	0	0	8
	0300	...	1012·5	+0·3	1016·0	55·9	47·7	37·0	7·7	—2·4	51	—8	1·3	—0·4	19	0	0	0	0	2	0	0	7
	1200	...	1009·6	...	1012·9	80·5	58·7	34·5	7·1	...	20	...	0·6	...	10	8	1	1	0	3	0	4	1
Airport Karachi (Airport)*	0000	73	1011·0	...	1013·7	56·5	48·7	38·6	8·3	...	52	...	0·9	...	7	3	0	0	0	0	1	5	12
	0300	...	1012·9	...	1015·6	56·0	48·1	37·1	7·9	...	51	...	1·7	...	6	5	0	0	0	0	0	2	15
	1200	...	1010·1	...	1012·6	79·7	61·4	40·0	10·4	...	29	...	1·0	...	0	3	2	2	3	9	7	2	0
Karachi (Manora)	0000	13	1013·3	...	1013·8	62·6	55·1	46·2	11·4	...	75	...	1·0	...	3	9	1	0	0	0	0	1	14
	0300	...	1014·9	—0·3	1015·4	62·1	54·3	45·6	10·8	—3·7	56	—14	1·9	—0·2	3	14	2	0	0	0	1	0	8
	1200	...	1012·3	...	1012·8	74·6	67·2	61·3	19·3	...	66	...	1·1	...	0	0	3	0	1	10	12	2	0
Badin	0000	31	1012·6	...	1013·7	52·1	46·5	38·6	8·8	...	63	...	0·0	...	18	0	0	0	0	0	2	0	8
	0300	...	1014·0	+0·4	1015·0	53·5	47·2	39·3	8·2	—4·2	57	—11	0·0	—1·9	18	0	0	0	0	2	3	2	3
	1200	...	1011·4	...	1012·5	83·6	59·9	33·9	7·1	...	19	...	0·0	...	18	2	2	0	0	0	5	1	0

R—Register not received.

*Same observatory was previous by designated as "Karachi (Drigh Road)".

TABLE II –ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF FEBRUARY, 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Humidity: Relative humidity	Humidity: Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: ture from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%	Octas.	Octas.									
HILL STATIONS excluding Kashmir and Baluchistan.																							
Murree	0000	7113	Observations not recorded during winter months.																				
	0300	...	782·5	—0·9	794·7	35·9	30·9	22·0	4·1	—0·8	58	—3	3·6	—0·2	1	3	8	9	0	0	1	4	2
	1200	...	782·5	...	794·2	41·1	35·1	26·2	4·8	...	55	...	4·2	...	0	0	4	8	0	0	5	1	10
Cherat	0000	4272	Observations not recorded during winter months.																				
	0300	...	870·2	—0·7	900·3	42·8	35·2	20·0	4·1	—1·3	43	—13	1·4	—2·1	15	1	0	2	1	0	0	4	5
	1200	...	869·7	...	899·4	50·5	40·2	23·8	4·3	...	34	...	2·5	...	11	3	0	1	1	0	1	5	6
Drosh	0000	4806	855·4	...	903·5	34·5	31·4	25·9	4·7	...	72	...	3·5	...	0	0	0	0	0	0	0	0	28
	0300	...	856·5	+0·8	904·6	35·2	30·8	22·3	4·1	—1·2	57	—14	4·6	+0·7	0	1	3	2	0	1	0	0	21
	1200	...	853·9	...	900·8	46·2	38·2	24·3	4·7	...	43	...	4·3	...	0	0	5	7	2	1	1	0	12
Parachinar	0000	5673	825·4	...	793·7	32·8	29·3	23·3	4·3	...	67	...	1·4	...	9	1	0	0	1	0	1	2	14
	0300	...	826·5	—0·2	794·9	35·7	30·9	23·6	4·2	—0·8	58	—10	2·8	—0·6	6	5	2	0	0	2	1	1	11
	1200	...	825·1	...	794·5	50·1	40·2	26·5	5·0	...	40	...	3·2	...	1	0	2	7	1	2	2	8	5
Wana*	0000	4456	...																				
	0300																						
	1200																						
AFGHANISTAN.																							
Jalalabad	0300	1950	(*)	...	(*)	47·5	(*)	(*)	(*)	...	(*)	...	3·4	...	0	1	0	0	0	2	8	7	10
	1200	...	(*)	...	(*)	63·0	(*)	(*)	(*)	...	(*)	...	4·2	...	0	0	1	0	0	2	5	6	14
Kabul	0300	5955	821·4	...	799·2	21·7	19·8	15·8	2·9	—0·4	75	+3	3·7	—0·6	3	3	1	2	4	6	4	3	2
	1200	...	820·5	...	798·8	35·6	31·6	25·9	4·6	...	67	...	4·0	...	3	2	1	0	4	6	2	1	9
Kandahar	0300	3462	898·4	...	902·1	34·8	33·8	32·4	6·2	...	90	...	2·7	...	0	4	0	0	0	0	0	0	24
	1200	...	896·6	...	900·2	56·2	47·8	38·0	8·3	...	51	...	3·7	...	0	4	1	0	0	11	0	0	12
IRAN.																							
Jask	0300	13	1014·4	...	1014·8	63·9	58·8	55·6	14·6	...	72	...	2·8	+0·4	11	5	7	0	1	0	2	1	1
	1200	...	1013·1	...	1013·5	75·3	65·0	57·6	16·5	...	55	...	2·5	...	1	0	2	0	6	7	10	2	0
ARABIA																							
Muscat	0300	20	1015·4	...	1015·9	68·7	62·4	58·5	15·9	...	67	...	1·0	—1·1	1	0	0	0	0	1	8	5	13
	1200	...	1013·5	...	1014·1	72·8	65·7	60·2	17·6	...	67	...	0·2	...	0	0	0	0	0	2	2	17	7
Kuwait †	0500	16	1018·3	...	1018·8	56·6	52·7	48·9	11·9	...	75	...	2·4	...	3	1	2	3	0	3	8	5	3
	1200	...	1016·1	...	1016·7	65·3	57·0	48·7	11·8	...	56	...	2·8	...	1	1	7	2	0	1	5	1	10

* Data rejected. † Observations recorded at 0500 hrs. G. M. T. instead 0300 hrs. G. M. T.

TABLE III—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF FEBRUARY 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (North)																					
Pabna	85·3	+2·3	93	26,27,28	55·1	—0·7	49	16,17	000	—0·96	000	...	0	—1·9	...	...	0	0	0	0	0
Rajshahi ...	...	...	...	...	...	...	...	...	000	—0·69	000	...	0	—1·7	...	...	0	0	0	0	0
Serajganj... ...	83·6	...	91	27,28	54·0	...	48	16,17	000	—0·74	000	...	0	—1·7	2·6	...	0	0	4	0	0
Bogra	84·3	+4·0	92	26,27	54·0	—0·9	49	16	000	—0·79	000	...	0	—1·6	2·0	+0·9	0	0	0	0	0
Dinajpur ...	85·4	+6·1	92	27,28	51·5	—1·8	45	4, 16	000	—0·61	000	...	0	—1·3	1·9	+0·2	0	0	0	0	0
Rangpur ...	...	...	...	...	...	...	...	...	000	—0·70	000	...	0	—1·3	...	...	0	0	0	0	0
EAST PAKISTAN (East)																					
Cox's Bazar ...	82·5	+0·4	86	3	57·0	—2·5	52	16,17,18	000	—0·47	000	...	0	—0·9	1·3	—0·7	0	0	3	0	0
Chittagong ...	82·7	+0·4	86	28	58·2	—0·5	52	1	000	—1·10	000	...	0	—1·3	3·7	—0·7	0	0	0	0	0
Comilla	*	...	*	...	*	...	*	...	000	—1·22	000	...	0	—1·9	2·7	+1·2	0	0	0	0	0
Narayanganj ...	85·7	+4·0	92	26,27,28	59·4	+0·4	51	17	000	—1·24	000	...	0	—1·9	2·0	+0·4	0	0	11	0	0
Brahmanbaria ...	85·3	+2·6	91	27	57·7	+2·2	49	17	000	—1·03	000	...	0	—1·9	2·1	...	0	0	2	0	0
Srimangal ...	84·2	+1·5	90	26,28	49·6	—2·3	42	4,14	000	—1·50	000	...	0	—2·7	0·7	—1·3	0	0	0	0	0
Mymensingh ...	84·4	+4·8	89	21,25	55·3	—1·4	47	1	000	—0·86	000	...	0	—1·7	1·9	+0·9	0	0	0	0	0
EAST PAK (Deltaic)																					
Faridpur ...	79·7	—0·4	88	28	55·4	—0·8	46	17	000	—1·19	000	...	0	—2·1	2·6	+0·7	0	0	2	0	0
Barisal	84·4	+2·5	90	4 days	60·8	+0·7	52	1	000	—0·94	000	...	0	—1·8	2·3	+0·9	0	0	5	0	0
Khulna	85·4	+2·4	92	26, 27, 28	60·9	+1·1	52	17	000	—0·93	000	...	0	—2·2	2·5	+0·4	0	0	4	0	0
Jessore	82·4	+0·6	92	26	53·8	—1·7	44	17	000	—1·30	000	...	0	—2·0	2·1	+0·8	0	0	4	0	0
Satkhaira ...	85·8	+1·3	93	27,28	58·9	+0·6	49	17	000	—1·03	000	...	0	—1·8	2·4	+1·1	0	0	1	0	0
KASHMIR																					
Srinagar ✗ ...																					
Gulmarg ✗ ...																					
Sonamarg ✗ ...																					
Dras ✗																					
Skardu ✗																					
Gilgit ✗																					
Misgar	34·6	...	46	28	✗	...	*	...	0·02	...	0·02	6	0	...	4·5	...	0	0	0	0	0
Jammu ✗ ...																					
Kargil ✗ ...																					
Gurez ✗ ...																					
NORTH PUNJAB.																					
Lahore	72·7	+0·6	85	19	44·8	+0·3	35	4,5	0·07	—0·90	0·05	11	0	—2·1	3·0	+1·5	1	0	0	0	0
Sialkot	71·9	+2·5	84	28	46·1	+0·6	39	3	0·78	—0·89	0·42	1	2	—1·0	2·2	+1·0	2	0	0	0	0
Jhelum	70·6	...	84	28	44·1	...	37	5	0·43	...	0·19	11	1	...	2·4	...	2	0	0	0	0
Rawalpindi ...	66·0	+0·8	79	28	40·0	—1·7	33	3,4	1·50	—0·98	0·58	1	6	+1·6	2·6	+0·8	3	0	0	0	0
Khushab ...	73·1	+1·8	85	28	42·8	—3·2	35	16	0·04	—0·88	0·04	2	0	—2·1	3·5	+0·8	1	0	0	0	0
Lyallpur	72·2	+0·9	83	28	42·6	—2·5	35	3,4,11	0·01	—0·56	0·01	9	0	—1·6	2·2	+0·5	1	0	0	0	0
SOUTH PUNJAB.																					0
Montgomery ...	72·6	+0·1	85	19, 23	44·4	—2·0	36	3,5	0·13	—0·37	0·08	10	0	—1·5	0·0	—2·4	0	0	0	0	0
Multan	74·2	+1·4	84	5 days	45·7	—1·1	35	3	0·00	—0·38	0·00	...	0	—1·3	2·0	+0·7	0	0	0	0	0
Fort Abbas ...	75·8	...	92	23	42·0	...	32	3	0·00	...	0·00	...	0	...	4·7	...	0	0	0	0	0
Bahawalpur ...	75·3	—0·3	89	19	44·6	—2·3	35	4,11	0·30	+0·04	0·30	9	1	+0·2	2·0	—0·2	0	0	0	0	0
Khanpur ...	77·6	+0·1	91	22	44·2	—2·5	31	2	0·02	—0·27	0·02	9	0	—0·9	4·1	+0·4	0	0	0	0	
N.-W. F. P. (Upper).																					
Chakdara ...	61·9	...	75	28	38·1	...	30	3	3·08	...	1·10	1	6	...	3·0	...	0	0	0	0	0
Peshawar ...	67·2	+1·0	78	28	41·7	—2·3	34	3,4	0·92	—0·61	0·39	1	3	—0·3	2·9	+1·3	1	0	0	0	0
Landi Kotal ...	55·6	...	69	26, 28	35·2	...	26	3	0·52	...	0·30	9	1	...	3·0	...	1	1	0	0	0
N.-W. F. P. (Lower).																					
Bannu	69·2	+0·6	81	28	45·0	—0·2	35	2	0·39	—0·79	0·19	9	2	—1·1	9·0	+3·2	0	0	0	0	0
Miranshah (*) ...																					
D. I. Khan ...	73·2	+1·6	85	28	42·9	—2·9	33	3,4	0·12	—0·55	0·07	9	0	—1·7	2·1	+0·9	0	0	0	0	0

✗ Data not available. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF FEBRUARY 1951.

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Visibility Weather Number of days				
	Mean	Departure from Normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·01" or more	Departure from normal	Mean	Departure from ormal	Thunder heard	Hail	Code figure 93 or less		
																			Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
BALUCHISTAN (North)																					
Fort Sandeman ...	59·4	+0·1	76	18	35·7	+0·3	23	3,4,6	0·12	—0·96	0·05	7	0	—3·3	1·5	—0·7	0	0	0	0	0
Hindubagh ...	51·8	...	70	21	30·0	...	14	10	3·22	...	2·01	7	3	...	7·7	...	0	0	0	0	0
Loralai	59·1	...	73	18	29·9	...	13	2,3	0·32	—0·75	0·32	7	1	—1·6	4·8	...	0	0	0	0	0
Harnai	...	...	...	...	...	...	...	...	1·45	+0·12	0·53	8	5	+2·6	...	...	...	...	...	...	...
Sibi	76·3	+0·6	89	23, 24,25	46·3	—3·4	32	4 days	0·26	—0·61	0·26	9	1	—0·7	3·7	+1·3	0	0	0	0	0
Quetta	51·2	...	70	21	28·2	...	11	2, 3	1·68	...	0·62	7	3	...	5·1	+2·5	0	0	8	2	2
Quetta (Sumungli)	52·2	...	72	21	26·0	...	7	2	1·89	...	0·74	8	3	...	7·2	...	0	0	0	3	0
Chaman	57·4	+0·1	74	20, 27	33·0	—5·1	16	1, 2	2·25	+0·53	0·58	8	3	—1·4	5·2	+0·8	0	0	0	0	0
Nushki	60·8	...	80	18	40·5	...	20	10	1·62	...	0·63	9	3	...	7·0	...	0	0	0	0	0
Kalat	52·9	+0·1	67	22	27·7	—3·5	5	2	1·97	+0·58	1·10	9	3	—0·4	5·9	+1·5	0	0	0	0	0
Dalbandin ...	65·1	—2·4	84	18	38·0	—1·6	18	2	0·87	—0·09	0·77	8	2	—0·2	4·3	+0·8	0	0	0	1	6
Nokkundi ...	68·3	—4·4	88	21	41·7	—5·3	24	2, 3	0·56	+0·16	0·41	8	2	+0·9	5·0	—0·7	0	0	0	3	0
BALUCHISTAN (South)																					
Las Bela (R) ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ormara	76·5	+0·7	88	26	57·3	—2·9	46	2	0·26	—1·93	0·26	9	1	—2·3	5·4	—0·1	0	0	0	0	0
Pasni	77·0	+0·1	88	17	53·7	—2·9	34	2	3·58	+2·17	2·56	9	3	+1·0	9·5	+4·4	0	0	0	0	0
Turbat	81·4	...	94	23,26,27	52·4	...	43	3	0·29	...	0·22	8	1	...	5·9	...	0	0	0	0	0
Punjgur	64·6	—3·4	80	18, 28	39·5	—3·0	25	2	2·04	+1·08	1·50	8	3	+1·1	3·3	—1·4	...	0	0	0	0
SIND (Upper)																					
Reti	81·8	...	94	5 days	40·9	...	29	4,11,12	0·00	...	0·00	...	0	...	3·6	...	0	0	0	0	0
Jacobabad ...	77·7	+0·6	91	19	48·1	—2·4	31	2	0·01	—0·32	0·01	8	0	—0·9	4·9	+1·7	0	0	0	1	3
Sukkur	78·5	—0·2	90	18,19	48·1	—3·9	36	65	0·00	—0·28	0·00	...	0	—0·8	1·9	—0·7	0	0	0	0	0
Pad Idan... ...	78·0	...	93	19	42·9	...	28	2	0·00	...	0·00	...	0	...	3·0	...	0	0	0	0	0
SIND (Lower)																					
Umarkot ...	85·0	...	98	24	49·0	...	35	2	0·00	...	0·00	...	...	...	4·1	0	0	0	0	0	0
Chhor	*	...	...	...	46·0	...	31	2	0·00	...	0·00	...	0	...	2·3(b)	...	0	0	1	0	0
Hyderabad ...	82·0	+0·8	99	19	52·2	—2·3	37	2	0·00	—0·24	0·00	...	0	—0·6	2·7	—0·8	0	0	0	0	0
Karachi (Airport)†	82·7	...	94	28	51·4	...	40	1,2	0·00	...	0·00	...	0	...	4·1	...	0	0	0	0	2
Karachi (Manora).	78·2	+1·3	90	28	59·7	—1·3	52	11	0·00	—0·44	0·00	...	0	—1·0	4·3	—1·6	0	0	0	1	0
Badin	85·0	+2·6	98	24, 28	49·8	—4·7	33	2	0·00	—0·38	0·00	...	0	—0·9	3·7	...	0	0	0	0	0
HILL STATION excluding Kashmir and Baluchistan.																					
Murree	45·0	—1·7	61	18	31·1	0·0	18	11	4·70	+0·39	1·17	11	8	+1·6	7·8	+2·5	2	0	0	0	0
Cherat	52·8	+0·9	65	27,28	39·4	—1·3	27	2	3·06	—0·15	1·52	2	3	—1·7	*	...	0	0	1	0	0
Drosh	49·2	+0·2	64	22,27	32·7	—0·9	24	3	3·58	+2·03	1·23	1	6	+2·3	3·0	+0·5	1	0	0	0	0
Parachinar ...	52·3	+0·5	65	18,28	31·0	—0·3	20	10, 11	1·45	—1·18	0·89	9	3	—2·4	3·1	+1·1	0	0	1	0	0
Wana * ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
AFGHANISTAN																					
Jalalabad ...	64·0	...	77	28	40·3	...	31	3, 5	0·59	...	0·32	9	2	...	2·7	...	0	0	0	0	0
Kabul	38·3	—3·9	50	23, 28	16·3	—7·7	—4	12	1·60	+0·11	0·70	9	5	+1·6	5·1	+2·0	0	0	0	0	0
Kandhar ...	58·1	...	78	28	29·6	...	14	2, 3	2·68	...	1·60	7	4	...	2·7	...	0	0	0	0	0
IRAN																					
Jask	76·0	+0·6	81	19, 26	61·2	—0·6	51	10, 11	0·00	—0·96	0·00	...	0	—1·8	6·5	—1·3	0	0	0	0	0
ARABIA																					
Muscat	75·3	—0·5	85	7	66·4	—0·2	60	6	—0·71	0·00	0.00	...	0	—1·4	3·6	—0.1	0	0	0	0	0
Kuwait ‡... ...	65·6	...	74	25,26,27	52·6	...	44	2	0·43	...	0·34	20	1	...	3·6	...	0	0	0	0	0

(R) Register not received. *Data rejected.

†Same observatory was previously designated as "Karachi (Drigh Road)". ‡Observation recorded at 0500 hrs. G.M.T. instead 0100 hrs G.M.T. (b) Mean of 23 days.

GPPK—H 32 Met. Service—5-7-57—200

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PAKISTAN WEATHER REVIEW, 1951

Monthly Weather Report

MARCH

Published by the authority of the Government of Pakistan

Chief Features.— Five western disturbances affected West Pakistan during the month, the last one causing fairly widespread precipitation in the region with moderate to heavy falls in the N.-W. F. P.

West Pakistan.—The first disturbance which moved as a low pressure wave across the region caused light precipitation and dust/thunderstorms at a few places on the 5th and 6th.

The second western disturbance which moved north-eastwards across the north west Pakistan from 8th to 12th was active and was responsible for local to fairly widespread rain/thunder showers over Baluchistan, the N.-W. F. P. and the north Punjab from 8th to 11th and a few falls in the south Punjab on the 9th and 10 h.

The third disturbance and its secondary which affected the region from 16th to 19th caused local rain/drizzle in Baluchistan, the N.-W. F. P. and the north Punjab during the period. The precipitation was fairly widespread over north Baluchistan on the 18th and over the Punjab on the 19th.

The fourth disturbance affected north Baluchistan on the 22nd and caused local light rain or drizzle thereon the 22nd and 23rd. It moved eastwards and by 25th formed into a depression over the south Punjab which moved out of the region by the 27th. Widespread rain and local thunderstorms occurred in West Pakistan outside Sind and south Baluchistan with moderate to heavy falls in the N.-W. F. P. on the 25th and the 26th. Scattered dust and thunderstorms were also reported from south Baluchistan and Sind.

According to the press reports, continuous rain over the N.-W. F. P. from the 24th to the 26th flooded several nullahs and an unprecedented rise in the level of Tank-Zam was recorded the flood waters which receded by the 27th did extensive damage to the wells of the flood water irrigation system.

The fifth disturbance moved as a low pressure wave across the region and was responsible for local rain/thunderstorms in Baluchistan and a few thunderstorms/showers in the upper N.-W. F. P., the Punjab and the Upper Sind on the 29th and the 30th.

The Chief amounts of rainfall recorded during the month were :—

Parachinar 1-1/2" on the 6th ; Drosh 1" on the 7th ; Chakdara 1-1/2" on the 9th and 1" on the 10th.; Kalat 1" on the 18th ; Murree 1-1/2" on the 19th ; Cherat and Leiah 3" each, Khushab and Harnai 1-1/2" each ; Peshawar and Landikotal 1" each on the 25th ; Sialkot, Khushab, Montgomery, Cherat and Landikotal 1-1/2" each, Multan, Parachinar and Miranshah 1" each on the 26th ; Jhelum and Cherat 1-1/2" each and Parachinar 1" on the 27th ; Ormara 1" on the 29th.

The mean rainfall in the month was in large excess over the south Punjab, the lower N.-W. F. P. and north Baluchistan in moderate excess over the upper N.-W. F. P. and in slight excess over the north Punjab. It was normal over south Baluchistan and in large defect over Sind. Over the plains of West Pakistan it was in moderate excess.

The mean maximum and minimum temperatures were normal over the region except that the mean maximum temperature was in defect over the south Punjab and north Baluchistan. The mean relative humidity was in defect over south Baluchistan, in excess over north Baluchistan and normal elsewhere in the region. The mean cloudiness in the region was above normal except the upper N.-W. F. P. where it was normal.

East Pakistan.—Weather remained dry during the first fortnight. During the rest of the month, the passage of low pressure waves across the region caused incursion of moist air resulting in local thundershowers.

The noteworthy amounts of rainfall recorded during the month were :—

Chittagong 2" and Cox's Bazar 1" on the 21st ; Srimangal 1-1/2" on the 31st.

The mean rainfall in the month was normal over the Deltaic sub-division, in moderate defect over the Eastern sub-division and in large defect over the Northern sub-division over the region as a whole it was in moderate defect.

The mean maximum and minimum temperature and relative humidity were normal over the region except that the mean maximum temperature was in excess and the mean relative humidity was in defect over the Northern sub-division. The mean cloudiness above normal over the entire region.

Table I contains the Divisional and sub-divisional means of rainfall, temperature, humidity and cloud amount for the 5 chief Divisions and 12 sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

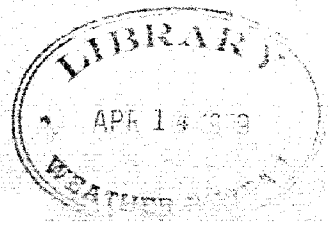

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TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—MARCH 1951

DIVISION	PRECIPITATION				DEPARTURE FROM NORMAL OF				
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	0300 hrs. G. M. T.		
							Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	Inches	Inches	Inches		°F	°F	mb	%	
East Pakistan	1·21	1·87	—0·66	—35	+0·6	+1·1	—0·7	—1	+0·9
Mean of East Pakistan	1·21	1·87	—0·66	—35	+0·6	+1·1	—0·7	—1	+0·9
Punjab	1·36	0·91	+0·45	+49	—2·0	—0·2	+0·1	+5	+1·1
N.-W. F. P.	2·82	1·49	+1·33	+89	—1·7	0·0	—0·2	+3	+0·9
Baluchistan	1·68	0·82	+0·86	+105	—1·3	—1·5	+0·4	+4	+1·0
Sind	0·02	0·22	—0·20	—91	+0·1	+0·1	0·0	+2	+1·8
Mean of West Pakistan excluding Baluchistan	1·13	0·86	+0·27	+31	—1·2	+0·1	0·0	+4	+1·0
SUB-DIVISION									
East Pakistan North	0·51	1·08	0·57	—53	+2·4	+1·5	—1·9	—8	+0·7
East Pakistan (East)	1·41	2·52	—1·11	—44	+ 0·8	+1·4	—0·2	0	+0·7
East Pakistan (Deltaic)	1·76	1·91	—0·15	—8	—0·9	+0·3	—0·5	+2	+1·1
Kashmir *									
North Punjab	1·60	1·31	+0·29	+22	—1·7	+0·5	+0·2	+5	+0·6
South Punjab	1·06	0·40	+0·66	+165	—2·5	—1·0	—0·1	+5	+1·7
N.-W. F. P. (Upper)	3·65	2·44	+1·21	+49	—1·8	—0·4	—0·1	—2	+0·4
N.-W. F. P. (Lower)	2·41	1·27	+1·14	+90	—1·7	+0·3	—0·3	+5	+1·1
Baluchistan (North)	2·20	0·93	+1·27	+137	—2·4	—1·9	+1·2	+11	+1·0
Baluchistan (South)	0·64	0·59	+0·05	+8	+0·4	—0·8	—0·9	—8	+0·9
Sind (Upper)	0·05	0·23	—0·18	—78	—1·7	—1·9	—0·1	+5	+2·5
Sind (Lower)	0·00	0·21	—0·21	—100	+1·3	+0·8	0·0	0	+1·3

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1951.

Sub-Division and Station.	Hours of Observation	Height of bar cistern above mean sea level	Mean Pressure: Stn. level reduced to standard temperature and gravity	Mean Pressure: Departure from normal	Mean Pressure: Reduced to stand temp and m.s.l. or nearest GPKM level.	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of Observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Ft.	Mbs.	Mbs.	Mbs.	°F.	°F.	°F.	Mbs.	Mbs.	%	%	Oktas.										
EAST PAKISTAN (NORTH)—								62.2															
Pabna	0300	...	...	...	...	77·3	67·9	~~67~~	18·7	—2·1	59	—7	...	...	...	...	...	...	...	...	...	...	...
Sirajganj	0000	49	1008·6	...	1010·4	64·1	61·4	59·2	17·5	...	85	...	2·8	...	0	0	0	2	4	2	2	0	21
	0300	...	1009·6	...	1011·3	76·0	67·7	61·7	19.1	...	64	...	4·0	...	0	0	2	5	0	5	5	0	14
	1200	...	1005·0	...	1006·7	85·7	69·7	58·0	17.8	...	42	...	4·0	...	0	0	1	1	2	3	4	1	19
Bogra	0000	×65	1007·5	...	1009·7	66·6	61·2	56·7	16.2	...	72	...	3·0	...	0	0	0	0	0	1	0	0	30
	0300	63	1009·1	—0·5	1011·3	75·4	65·0	57·0	16.0	—2·1	56	—7	3·5	+1·5	0	1	10	1	0	14	3	1	1
	1200	~~63~~	1002·8	...	1005·0	87·7	66·2	47·7	12·5	...	29	...	2·9	...	0	0	1	0	0	6	14	1	9
Dinajpur	0000	123	1005·4	...	1009·8	63·9	58·6	54·3	14.3	...	70	...	1·6	...	0	1	0	0	0	0	1	0	29
	0300	...	1007·6	+0·3	1011·9	74·7	62·7	52·0	14·3	—1·6	48	—11	1·7	0·0	0	4	1	0	0	5	7	0	14
	1200	...	1003·0	...	1007·3	86·7	55·8	49·0	12.0	...	28	...	2·5	...	0	0	0	0	0	0	9	1	21
EAST PAKISTAN (EAST)—																							
Cox's Bazar	0000	38	1010·0	...	1011·3	68·3	66·7	65·6	21·5	...	92	...	3·3	...	0	0	0	0	0	0	0	0	31
	0300	...	1011·7	+0·3	1013·0	77·5	71·6	68·3	23.2	—1·5	73	—1	3·0	+0·8	2	1	1	0	2	0	0	0	25
	1200	...	1008·7	...	1009·9	79·7	73·2	69·3	25·3	...	72	...	3·0	...	0	0	0	0	8	1	0	1	21
Chittagong	0300	87	1009·9	—0·1	1012·9	77·3	70·6	66·8	22.5	—1·0	71	—2	2·9	+0·4	2	7	12	5	2	0	0	0	3
	1200	...	1006·2	...	1009·2	79·3	72·9	68·5	24·3	...	72	...	2·8	...	1	2	1	1	8	14	3	1	0
Comilla	0000	29	1009·5	...	1010·5	70·1	68·4	67·2	23·1	...	92	...	4·3	...	1	0	2	7	13	0	1	1	6
	0300	...	1011·5	+0·1	1012·5	77·2	71·5	67·9	23·9	—0·8	75	+3	3·8	+0·9	2	2	1	5	19	0	0	1	1
	1200	...	1007·7	...	1008·7	84·7	73·1	65·5	23·0	...	56	...	4·7	...	3	0	0	5	16	0	2	2	3
Narayanganj	0000	26	1009·0	...	1009·9	70·3	67·6	66·0	21·9	...	87	...	4·2	...	0	1	2	3	5	9	2	2	7
	0300	...	1010·9	—0·6	1011·7	78·9	70·5	65·4	21·6	—0·8	66	—5	3·6	+0·3	2	2	1	3	5	12	3	3	0
	1200	...	1006·6	...	1007·5	84·2	70·9	62·6	19·4	...	51	...	3·2	...	0	3	0	5	6	3	1	1	12
Brahmanbaria	0000	32	1009·5	...	1010·5	69·5	67·3	65·7	21·7	...	89	...	3·7	...	1	0	0	3	13	2	0	1	11
	0300	...	1011·5	...	1012·6	78·9	70·3	65·3	21·6	+0·5	65	—2	3·0	...	1	0	0	2	16	3	2	0	7
	1200	...	1006·9	...	1008·0	83·6	69·3	59·9	18·1	...	47	...	2·3	...	0	1	0	3	6	1	0	0	20
Srimangal	0000	69	1008·4	...	1010·5	64·6	63·3	62·2	19·3	...	93	...	3·9	...	1	0	0	0	3	0	0	0	27
	0300	...	1010·2	—0·1	1012·7	74·6	68·9	65·5	22·1	+1·3	75	+1	4·3	+1·9	3	3	2	3	10	0	1	0	9
	1200	...	1005·9	...	1008 3	80·4	69·2	62·0	19·2	...	57	...	3·7	...	2	0	1	1	11	0	5	0	11
Mymensingh	0000	62	1008·1	...	1010·3	64·5	62·6	61·6	18·8	...	89	...	3·3	...	0	0	2	0	0	0	4	0	25
	0300	...	1010·0	—0·4	1012·2	73·6	67·8	64·5	20·7	+0·7	74	+3	3·3	—0·1	0	1	14	1	0	0	2	0	13
	1200	...	1005·4	...	1007·6	85·1	68·9	57·6	17·0	...	42	...	3·5	...	0	0	3	1	0	0	6	0	21
EAST PAKISTAN (DELTAIC)																							
Faridpur ...	0000	46	1008·2	...	1009·8	67·1	65·4	63·8	20·8	...	92	...	3·6	...	0	0	13	4	0	0	0	0	14
	0300	...	1010·4	+0·1	1012·0	77·8	71·2	67·1	23·4	+1·4	71	+5	3·8	+1·6	1	3	19	3	1	0	0	0	4
	1200	...	1006·7	...	1008·3	86·5	74·0	67·0	23·5	...	54	...	4·2	...	0	2	8	6	1	0	0	0	14
Barisal	0000	11	1009·7	...	1010·1	71·0	69·1	68·2	23·3	...	90	...	4·4	...	0	1	0	1	3	4	0	1	21
	0300	...	1011·9	0·0	1012·3	77·3	71·8	68·5	23·9	—1·2	75	—1	3·7	+0·9	2	3	0	2	4	12	3	0	5
	1200	...	1007·9	...	1008·3	84·2	73·0	66·2	22.7	...	57	...	4·4	...	0	2	2	6	5	6	1	0	9
Khulna	0000	16	1009·8	...	1010·3	70·6	68·3	66·8	22·7	...	87	...	3·1	...	0	0	0	0	4	11	1	1	14
	0300	...	1012·3	+0·5	1012·8	77·5	70·7	67·8	21·9	—0·8	69	+3	3·3	+0·4	0	5	1	2	4	11	6	1	1
	1200	...	1008·5	...	1009·1	83·7	71·1	63·5	20·7	...	52	...	3·3	...	0	0	0	4	15	3	5	1	1
Jessore	0000	26	1009·4	...	1010·3	65·9	64·6	63·5	20·0	...	92	...	3·1	...	1	1	0	0	8	2	1	0	18
	0300	...	1011·2	—0·1	1012·1	77·3	69·0	63·6	19·9	—2·3	66	—3	3·1	+0·6	0	0	0	1	6	13	2	1	8
	1200	...	1007·0	...	1007.9	84·8	70·0	60·2	18·3	...	47	...	3·3	...	1	0	0	1	6	7	5	0	11
Satkhira	0000	16	1009·7	...	1010·3	69·4	67.7	66·7	22·3	...	92	...	3·7	...	0	0	0	4	1	8	0	4	14
	0300	...	1010·7	—0·7	1011·2	77·1	71·1	67·3	23·2	+0·3	75	+7	4·0	+2·1	1	1	0	4	2	16	0	7	0
	1200	...	1007·3	...	1007·9	85·8	74·7	69·3	24·7	...	59	...	5·0	...	0	0	0	8	2	4	0	2	15

(c) Observation at 0000 Hrs recorded from a distance site by P. R. O. Staff.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1951—*contd.*

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean Pressure: Station level reduced to standard temp. and gravity	Mean Pressure: Departure from normal	Mean Pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level.	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total cloud amount: Mean amount	Total cloud amount: Departure from normal	Wind direction Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%		Oktas									
KASHMIR—																							
Srinagar*	0000	5205	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Gulmarg*	0000	8709	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1200	...	...																				
Dras*	0000	10059	...																				
	0300	...	...		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1200																						
Leh*	0000	11529	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Skardu*	0000	7505	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300				...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1200																						
Gilgit*	0000	4890	...																				
	0300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Misgar	0000	10,190	696·5	...	700·4	26·2	23·5	18·5	3·3	...	72	...	4·3	...	0	0	0	0	1	0	4	0	26
	0300	...	697·4	...	701·3	25·5	23·1	18·5	3·3	...	74	...	4·2	...	0	0	1	0	0	0	7	0	23
	1200	...	695·1	...	698·8	40·1	31·1	16·2	3·3	...	37	...	4·0	...	0	0	21	0	0	0	8	0	2
NORTH PUNJAB—																							
Lahore	0000	702	986·2	...	1011·4	56·8	53·3	50·0	12·3	...	78	...	2·4	...	5	3	2	0	0	0	1	2	18
	0300	...	987·9	+0·4	1012·8	61·7	55·8	50·2	12·5	+1·0	66	+7	3·6	+0·9	4	5	3	1	1	0	3	3	11
	1200	...	985·8	...	1010·0	77·1	61·8	49·5	12·0	...	38	...	4·1	...	3	6	0	1	0	0	6	9	6
Sialkot	0000	830	981·5	...	1011·1	57·9	53·5	48·9	12·1	...	75	...	3·1	...	0	3	2	0	0	2	0	6	18
	0300	...	983·7	+0·6	1013·2	61·8	55·5	49·4	12·2	—0·3	65	—2	3·5	+1·3	0	14	0	2	0	1	0	11	3
	1200	...	981·1	...	1009·9	74·4	62·1	52·6	13·5	...	46	...	4·7	...	1	4	0	0	0	7	7	7	5
Jhelum...	0000	765	984·5	...	1012·1	55·3	51·9	48·5	11·6	...	79	...	3·4	...	0	0	0	1	0	1	1	6	22
	0300	...	985·9	...	1013·2	59·2	53·9	48·6	11·8	...	69	...	4·3	...	2	0	1	2	0	1	3	7	15
	1200	...	984·1	...	1010·5	75·7	60·0	45·1	10·6	...	35	...	5·1	...	1	1	0	4	1	0	3	6	15
Rawalpindi	0000	1,676	954·3	...	1013·9	52·8	48·8	44·7	10·1	...	75	...	3·5	...	0	0	0	0	0	0	2	1	28
	0300	...	954·9	+0·1	1014·2	58·0	51·6	45·0	10·5	—0·2	63	+4	3·7	+0·7	2	0	0	0	1	0	1	1	26
	1200	...	953·9	...	1011·4	70·5	56·2	42·9	9·6	...	38	...	4.6	...	0	0	2	0	1	1	10	0	17
Khushab	0000(b)	616	989·7	...	1011·7	57·5	52·0	45·9	10·7	...	67	...	1·4	...	3	5	7	1	2	1	1	3	6
	0300(b)	...	990·9	—0·3	1012·9	62·5	54·6	45·9	11·1	+0·4	57	+1	3.5	+0·7	1	5	6	0	2	2	3	2	8
	1200(a)	...	989·1	...	1010·4	77·8	60·1	42·2	9·8	...	30	...	4.4	...	7	2	2	6	4	1	5	2	1
Lyallpur	0000	605	989·0	...	1010·7	56·2	52·6	49·2	11·8	...	77	...	2.0	...	2	5	2	2	1	2	1	3	13
	0300	...	990·5	—0·4	1012·3	56·2	52·8	49·6	12·0	+0·3	79	+16	2·5	—0·6	2	6	2	0	1	2	2	3	13
	1200	...	988·9	...	1009·8	76·6	62·4	50·5	12·0	...	41	...	3·7	...	2	3	2	0	1	3	5	5	10
SOUTH PUNJAB—																							
Montgomery	0000	558	991·0	...	1011·0	57.1	52·4	45·4	11·3	...	69	...	2·5	...	0	1	0	0	0	4	3	2	21
	0300	...	992·9	+0·4	1012·7	62.4	55·5	49·1	11·9	—0·7	61	—6	3·0	+0·9	0	2	0	2	1	6	2	10	8
	1200	...	990·7	...	1010·0	77.4	62·9	48·6	12·1	...	37	...	3·0	...	1	5	0	1	0	4	4	7	9
Multan	0300	413	997·7	—0·2	1012.6	61·7	55·3	49·0	12·3	—1·0	66	+4	4·7	+2·5	9	3	3	0	2	0	0	6	8
	1200	...	995·3	...	1009.3	79·5	62·0	46·8	11·1	...	33	...	4·3	...	8	4	2	1	5	2	0	7	2

* Data not available. (a) mean of 30 days. (b) mean of 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1951.—*contd.*

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean Pressure: Stn. level reduced to standard temp. and gravity	Mean Pressure: Departure from normal	Mean Pressure: Reduced to standard temp. & m.s.l. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction Number of Observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Feet	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%	Oktas										
SOUTH PUNJAB—*contd.*																							
Fortabbas	0000	475	993·9	...	1011·0	57·1	53·2	49·6	12·0	...	77	...	2·0	...	2	2	1	1	0	2	0	1	22
	0300	...	994·8	...	1011·7	59·7	55·1	50·8	12·7	...	72	...	2·2	...	5	6	1	9	1	2	0	1	6
	1200	...	991·4	...	—1007·7	82·7	67·7	52·9	16·4	...	43	...	0·7	...	9	10	1	0	1	1	3	6	0
Bahawalpur	0300	384	998·6	—0·3	1012·5	59·0	53·9	49·2	11·9	—0·3	70	+9	3·9	+2·0	3	8	3	1	0	0	0	0	16
	1200	...	996·1	...	1009·3	81·5	63·8	48·6	11·7	...	34	...	2·9	...	9	3	0	0	0	2	0	1	16
Khanpur	0300	297	1001·2	—0·9	1011·9	61·3	55·5	49·3	12·5	+1·8	67	+12	3·6	+1·5	9	8	4	2	0	1	0	1	6
	1200	...	999·1	...	1009·3	83·3	64·2	48·3	11·9	...	30	...	3·2	...	9	6	1	1	1	1	10	2	0
N.-W. F. P. (UPPER)																							
Chakdara	0000	~~2197~~ 2225	935·5	...	1014·0	52·2	47·5	43·0	9·3	...	71	...	2·8	...	10	1	2	3	2	0	1	1	11
	0300	...	936·5	...	1014·8	53·3	48·5	43·4	9·7	...	68	...	3·0	...	1	0	1	3	8	3	0	0	15
	1200	...	934·8	...	1010·8	68·2	56·0	45·1	10·4	...	45	...	3·8	...	4	5	3	1	0	0	5	4	9
Peshawar	0000	1,175	971·3	...	1013·3	54·1	50·0	44·9	10·5	...	74	...	3·5	...	1	0	0	3	9	13	1	1	3
	0300	...	972·8	—0·2	1014·6	57·7	52·4	46·6	10·8	—0·1	67	—2	4·6	+0·4	2	1	1	4	4	5	3	0	11
	1200	...	970·9	...	1011·6	70·4	57·8	44·8	10·8	...	42	...	5·2	...	5	3	3	2	3	0	1	7	7
Landikotal	0000	3,503	892·9	...	897·9	48·9	44·3	38·0	8·1	...	69	...	3·5	...	0	1	0	0	0	0	0	8	22
	0300	...	894·2	...	899·1	51·9	46·1	38·7	8·5	...	62	...	4·6	...	0	0	0	1	2	1	0	10	17
	1200	...	893·0	...	897·9	61·3	50·4	37·1	8·4	...	43	...	5·0	...	0	3	0	6	0	4	0	16	2
N.-W. F. P. (LOWER)																							
Bannu	0000	1,264	967·3	...	1012·3	56·6	50·5	43·1	9·9	...	63	...	2·7	...	1	1	0	0	0	2	11	3	13
	0300	...	966·6	...	1013·4	59·2	51·8	42·8	9·8	0·0	57	+2	4·1	+1·7	2	2	0	0	0	1	7	8	11
	1200	...	965·5	...	1009·9	73·7	56·8	37·3	8·2	...	28	...	5·0	...	0	2	4	6	6	3	2	3	5
Miranshah *	0000	3,026	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
D. I. Khan	0000	570	991·3	...	1011·8	56·7	52·5	49·0	11·6	...	75	...	1·5	...	4	5	1	3	0	3	2	7	6
	0300	...	992·3	—0·5	1012·9	57·1	52·7	48·2	11·6	—0·5	72	+9	3·2	+0·6	2	8	1	0	1	0	7	1	11
	1200	...	989·6	...	1009·2	78·3	62·7	50·9	12·4	...	38	...	3·3	...	2	8	4	6	4	1	0	2	4
BALUCHISTAN (NORTH)																							
Fort Sandeman	0300	4,614	859·7	+0·1	900·2	48·8	42·8	33·8	6·9	+0·4	58	—9	3·1	+0·8	0	3	0	2	0	0	2	0	24
	1200	...	858·0	...	897·0	63·7	48·8	31·4	5·7	...	31	...	4·3	...	2	5	0	3	0	0	0	0	21
Hindubagh	0000	5,950	818·8	...	796·4	40·1	37·0	34·2	6·4	...	77	...	2·6	...	0	1	2	0	0	9	17	1	1
	0300	...	819·9	...	797·5	42·5	39·1	33·9	6·9	...	74	...	3·0	...	1	1	0	1	0	14	6	3	5
	1200	...	818·3	...	795·9	56·6	43·8	26·9	5·0	...	33	...	4·2	...	1	2	3	0	5	14	4	2	0
Loralai	0000	4,699	855·9	...	899·3	46·0	41·6	34·5	7·1	...	67	...	3·1	...	0	2	0	0	1	4	12	2	10
	0300	...	856·6	...	900·0	46·9	41·1	33·1	6·5	...	61	...	2·2	...	1	1	1	0	0	12	1	2	13
	1200	...	855·4	...	897·1	63·3	50·0	31·5	6·9	...	35	...	3·9	...	1	0	0	10	3	9	1	2	5
Sibi	0000	441	995·7	...	1010·4	63·7	53·8	42·3	9·6	...	48	...	1·6	...	2	3	2	1	0	0	2	4	17
	0300	...	996·7	+1·3	1012·3	64·6	55·2	42·9	10·5	+2·3	51	+12	3·6	+1·8	2	2	2	3	0	0	0	3	19
	1200	...	992·4	...	1008·9	83·3	62·6	42·7	10·2	...	26	...	4·5	...	0	3	4	4	3	2	3	5	7
Quetta	0000	5,490	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	...	831·7	—2·0	794·8	43·3	41·8	39·2	8·4	+1·9	83	+16	3·9	+1·2	3	4	0	3	6	2	0	4	9
	1200	...	830·2	...	794·3	55·3	49·1	44·2	9·4	...	64	...	5·2	...	3	3	1	1	5	7	2	8	1
Quetta (Samungli) ...	0000	5,253	841·1	...	797·0	39·6	37·5	35·3	6·4	...	84	...	3·5	...	0	0	3	5	0	4	4	5	10
	0300	...	841·9	...	797·4	42·2	39·6	36·2	7·2	...	81	...	4·3	...	0	1	2	6	2	3	0	5	12
	1200	...	840·3	...	796·1	56·3	50·0	43·0	10·2	...	65	...	5·2	...	0	1	2	3	0	5	8	9	3

* Data rejected.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1951—*contd.*

SUB-DIVISION AND STATION	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKm level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total cloud amount: Mean amount	Total cloud amount: Departure from normal	Wind direction. Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%	Oktas										
BALUCHISTAN (NORTH)—*contd.*																							
Chaman	0000	4,311	868·1	...	899·1	48·8	44·3	38·6	9·0	...	76	...	2·5	...	2	0	14	9	3	1	1	0	1
	0300	...	869·3	—0·1	900·1	49·7	44·3	37·4	7·8	+1·1	63	+9	4·5	+1·5	0	1	10	10	5	2	0	1	2
	1200	...	868·3	...	898·3	60·9	50·0	37·5	8·7	...	48	...	5·0	...	1	1	1	4	3	5	7	9	0
Nushki	0000	3,412	901·9	...	903·6	52·3	49·0	44·8	10·3	...	79	...	3·4	...	0	10	8	1	0	1	1	0	10
	0300	...	902·6	...	904·3	56·6	50·4	45·0	10·1	...	64	...	4·3	...	1	10	9	3	0	0	2	1	5
	1200	...	900·1	...	901·9	67·1	57·2	48·5	11·9	...	53	...	4·5	...	2	1	3	0	1	7	7	9	1
Kalat	0000	6,616	798·2	...	795·6	37·1	34·8	31·8	6·7	...	80	...	0·3	...	0	0	0	0	8	0	1	0	22
	0300	...	799·5	—0·2	796·8	39·2	36·3	32·7	6·1	+0·2	76	+17	2·5	+0·3	2	0	0	1	15	2	0	1	10
	1200	...	798·1	...	795·5	54·3	44·4	33·7	6·3	...	45	...	3·2	...	5	2	0	0	4	8	2	8	2
Dalbandin	0000	2,785	916·8	...	898·1	52·6	47·5	40·5	9·4	...	68	...	2·7	...	5	4	4	1	0	1	1	0	15
	0300	...	918·1	—0·1	899·3	51·5	46·8	42·5	8·9	+0·9	69	+16	3·7	+1·4	0	9	2	2	1	0	2	0	15
	1200	...	915·7	...	897·7	72·0	57·5	43·4	10·3	...	38	...	4·7	...	1	7	2	6	4	5	2	1	2
Nokkundi	0000	2,229	934·4	...	1012·4	56·7	50·1	43·4	9·9	...	63		1·1	...	5	7	1	0	0	0	1	4	13
	0300	...	936·2	...	1014·0	57·3	51·1	45·0	10·0	+1·6	65	+19	2·5	+0·2	3	6	1	0	1	1	0	5	14
	1200	...	933·5	...	1008·3	75·3	58·5	42·6	9·4	...	33	...	3·6	...	4	1	2	8	1	1	2	5	7
BALUCHISTAN (SOUTH)—																							
Lasbela	0000	292	*	...	*	62·4	56·5	54·0	12·6	...	66	...	2·1	...	0	0	0	1	4	3	0	0	23
	0300	...	1002·6	+0·1	1012·9	71·3	59·1	49·2	11·5	—4·4	44	—25	1·5	0·3	0	1	0	0	0	3	0	0	27
	1200	...	999·2	...	1009·8	88·2	66·1	48·5	11·8	...	26	...	2·3	...	1	0	1	6	7	10	0	1	5
Ormara	0000	15	1010·3	...	1010·8	68·8	55·5	62·3	9·2	...	38	...	1·2	...	0	1	0	0	1	8	7	1	13
	0300	...	1012·3	...	1012·6	71·2	67·1	65·7	20·7	+1·2	80	—3	3·2	+1·0	1	0	3	3	0	5	10	1	8
	1200	...	1009·4	...	1009·9	81·2	68·5	60·1	18·0	...	50	...	3·4	...	0	0	0	4	5	12	7	3	0
Pasni	0000	10	1012·0	...	1012·1	61·8	59·3	57·3	16·2	...	85	...	3·4	...	2	0	0	1	0	4	11	9	4
	0300	...	1013·0	+0·4	1013·5	65·8	61·5	58·1	16·7	—0·8	76	—3	2·7	+1·3	1	0	2	0	0	0	10	15	3
	1200	...	1009·8	...	1010·5	79·3	67·9	59·8	18·0	...	52	...	(b) 3·4	...	0	0	0	3	1	20	4	1	(b) 0
Turbat	0000	510	995·7	...	1013·4	64·9	57·7	50·4	12·3	...	58	...	2·4	...	0	1	3	0	1	0	2	1	23
	0300	...	996·3	...	1014·7	66·6	57·9	48·5	13·0	...	56	...	3·8	...	1	2	4	2	0	1	2	1	18
	1200	...	994·1	...	1011·0	86·2	65·0	44·3	11·4	...	27	...	4·2	...	3	1	0	0	2	6	14	3	2
Panjgur	0000	3,177	903·5		897·5	52·7	47·0	39·0	8·8	...	67	...	2·3	...	6	14	5	0	2	0	1	3	0
	0300	...	904·3	—0·8	898·6	52·8	47·5	40·0	9·1	+0·4	61	—2	3·3	+1·8	9	16	2	0	0	1	1	2	0
	1200	...	902·5	...	897·0	71·9	54·4	30·8	7·5	...	34	...	4·6	...	2	1	0	0	0	13	4	11	0
SIND (UPPER) —																							
Reti	0000	280	1001·3	...	1011·8	57·8	53·8	46·0	12·4	...	76	...	1·4	...	20	4	0	0	1	1	1	1	3
	0300	...	1002·9	...	1013·0	61·3	53·9	45·2	11·0	...	58	...	1·9	...	10	9	0	1	2	2	2	1	4
	1200	...	999·9	...	1009·6	85·9	64·3	45·7	11·0	...	25	...	2·4	...	13	2	0	1	0	1	7	6	1
Jacobabad	0000	183	1003·6	...	1010·3	62·8	56·0	49·0	12·3	...	62	...	2·5	...	4	3	8	4	2	0	4	3	3
	0300	...	1005·7	+0·3	1012·4	65·0	57·1	50·0	12·3	—0·2	58	+3	4·0	+2·2	4	1	5	6	1	1	1	3	9
	1200	...	1002·5	...	1008·9	84·8	67·7	55·0	15·4	...	38	...	4.3	...	5	1	1	7	3	3	1	7	3
Sukkur	0000	221	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	...	1003·8	—0·4	1011·8	61·9	55·7	50·0	11·8	—0·1	61	+8	4·2	+2·9	3	5	3	6	1	0	0	0	13
	1200	...	1001·8	...	1008·6	84·5	64·0	47·0	11·1	...	28	...	4·1	...	4	10	1	1	1	5	0	3	6
Pad Idan	0000	153	1004·4	...	1009·8	60·0	53·8	47·7	11·4	...	65	...	2·4	...	5	7	1	0	1	2	0	5	10
	0300	...	1006·0	...	1011·8	62·0	55·3	49·0	11·9	...	64	...	2·5	...	6	6	0	2	0	2	0	5	10
	1200	...	1003·8	...	1008·0	85·4	63·3	43·3	10·4	...	24	...	3·7	...	8	2	1	0	3	2	1	8	6
SIND (LOWER)—																							
Umarkot	0000	55	1007·7	...	1009·7	63·6	61·5	59·3	17·5	...	86	...	0·0	...	0	3	1	3	9	1	0	2	12
	0300	...	1009·4	...	1011·4	68·5	65·5	63·6	20·1	...	85	...	0·0	...	0	4	3	1	9	3	3	2	6
	1200	...	1006·5	...	1008·4	90·4	83·4	79·6	35·8	...	74	...	0·0	...	0	0	1	0	8	9	12	1	0

* Data rejected. (b) Mean of 29 days.

TABLE—II. ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MARCH, 1951—*concld.*

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & m.s.l. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Departure from normal	Wind direction, Number of observations from: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%	Okt as										
SIND (LOWER)—*contd.*																							
Chhor	0000	19	1009·2	...	1009·9	60·3	54·4	48·3	11·7	...	65	...	2·6	...	1	1	1	0	1	5	0	0	22
	0300	...	1011·1	...	1011·8	66·6	58·0	49·5	12·6	...	57	...	3·5	...	0	4	4	1	3	8	2	0	9
	1200	...	1007·5	...	1008·2	89·8	67·8	50·5	13·3	...	28	...	3·8	...	4	1	1	0	0	7	12	2	4
Hyderabad	0000	96	1006·3	...	1009·7	66·7	58·1	49·6	12·6	...	51	...	2·2	...	7	1	0	2	2	10	1	1	7
	0300	...	1008·7	0·0	1012·2	67·9	58·9	51·5	13·0	0·0	56	+1	3·3	+1·9	8	1	1	0	0	6	1	3	11
	1200	...	1006·0	...	1008·3	89·0	64·5	44·0	9·7	...	20	...	2·6	...	4	7	2	2	0	8	1	6	1
Karachi Air port (@) ...	0000	73	1007·8	...	1010·4	67·1	62·8	59·3	17·1	...	77	...	2·1	...	4	1	0	0	0	3	8	4	11
	0300	...	1009·7	...	1012·3	68·9	62·8	57·8	16·2	...	70	...	3·8	...	4	2	0	0	1	1	6	3	14
	1200	...	1007·0	...	1009·6	84·7	69·4	58·8	16·8	...	43	...	3·3	...	0	0	1	2	1	12	12	3	0
Karachi (Manora) ...	0000	13	1009·7	...	1010·2	71·6	67·5	65·0	21·2	...	81	...	1·9	...	0	2	0	0	0	2	15	3	9
	0300	...	1011·6	—0·6	1012·1	72·0	67·2	64·2	20·8	+1·4	76	...	4·0	+2·0	1	4	1	0	0	2	7	4	12
	1200	...	1009·2	...	1009·7	79·1	71·9	67·8	23·5	...	70	...	3·4	...	0	0	0	0	0	12	18	1	0
Badin	0000	31	1009·3	...	1010·5	64·0	58·3	52·6	14·1	...	70	...	0·9(a)	...	7	0	0	0	0	1	15	0	(a) 7
	0300	...	1010·7	—0·3	1011·8	69·2	62·0	54·8	15·6	—1·3	65	—1	1·3(a)	+0·1	8	1	0	0	0	3	13	1	(a) 4
	1200	...	1008·0	...	1008·9	90·0	66·7	49·2	11·9	...	24	...	1·2(a)	...	8	0	1	1	0	1	14	2	(a) 3
HILL STATIONS EXCLUDING KASHMER AND BALUCHISTAN—																							
Murree	0000	7,113	...			Observations not recorded during winter months.																	
	0300	...	783·5	—0·4	795·5	44·4	37·3	27·5	5·3	−0·3	53	0	5·1	+1·5	1	7	5	8	0	0	0	4	6
	1200	...	783·0	...	794·8	47·4	41·3	33·8	6·6	...	61	...	6·1	...	0	3	4	11	1	2	4	1	5
Chorat	0000	4,272	...			Observations not recorded during winter months.																	
	0300	...	870·1	+0·1	899·8	51·3	44.2	38·1	7·1	+0·1	55	—1	3·5	+0·4	14	0	0	4	4	0	1	8	0
	1200	...	869·6	...	898·9	57·6	48·1	37·1	7·6	...	47	...	4·4	...	13	2	0	2	2	1	0	8	3
Drosh	0000	4,806	855·0	...	902·2	42·4	39·4	35·3	7·0	...	76	...	4·9	...	0	0	0	1	0	0	1	0	29
	0300	...	856·0	+0·7	903·3	42·8	38·6	32·1	6·4	+0·1	69	+2	5·0	+1·2	0	1	1	1	0	0	1	0	27
	1200	...	853·3	...	899·3	55·6	44·9	29·7	5·9	...	38	...	5·3	...	0	2	3	1	0	4	4	0	17
Parachinar	0000	5,673	825·5	...	794·3	40·8	38·3	35·0	6·9	...	81	...	2·7	...	12	5	1	0	0	1	2	4	6
	0300	...	826·4	—0·1	795·4	45·1	40·6	35·2	7·0	+2·0	69	+9	4·1	+0·8	5	2	1	0	0	1	5	5	12
	1200	...	825·2	...	795·0	55·5	(*)	(*)	(*)	...	(*)	...	5·2	...	1	3	2	10	5	3	2	1	4
Wana*	0000	4,456	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
AFGHANISTAN—																							
Jalalabad	0300	1,950	"	...	(*)	55·3	50·7	46·4	10·9	...	70	...	5·8	...	2	0	0	0	0	3	8	4	14
	1200	...	(*)	...	(*)	69·9	60·4	53·1	14·6	...	59	...	5·8	...	0	2	3	4	0	0	3	1	18
Kabul—	0300	5,955	820·9	...	799·3	39·3	35·3	28·9	5·6	+0·9	68	+2	5·5	+2·0	0	1	1	2	10	9	2	2	4
	1200	...	819·6	...	798·6	50·9	41·9	26·9	5·9	...	47	...	5·2	...	8	10	3	2	0	3	2	2	1
Kandahar	0300	3,462	895·1	...	898·7	46·2	44·3	41·6	9·0	...	85	...	3·5	...	0	1	0	0	0	0	0	0	30
	1200	...	893·6	...	897·1	63·5	52·4	41·0	9·1	...	45	...	3·9	...	0	4	0	1	0	8	0	0	18
IRAN—																							
Jask	0300	13	1011·7	...	1012·1	67·8	62·4	58·6	16·8	...	72	...	4·4	+2·5	12	3	2	0	0	1	0	2	5
	1200	...	1010·3	...	1010·7	78·4	68·2	61·9	18·9	...	58	...	3·9	...	2	0	0	1	3	9	14	2	0
ARABIA—																							
Muscat	0300	20	1012·2	...	1012·7	72·9	66·0	60·9	18·7	...	67	...	3·4	+1·6	1	0	4	1	0	0	4	11	10
	1200	...	1010·1	...	1011·7	75·7	68·9	65·0	21·1	...	69	...	2·3	...	0	0	0	0	0	0	2	17	12
Kuwait†	0500	16	1014·6	...	1015·1	64·9	62·0	59·6	17·7	...	84	...	2·1	...	2	0	0	4	3	7	5	5	5
	1200	...	1012·1	...	1012·6	73·6	68·7	65·8	22·2	...	81	...	2·1	...	0	2	5	5	0	0	4	4	11

(a) Mean of 30 days. (*) Data rejected. † Observations recorded at 0500 hrs. G. M. T. instead 0300 hrs. G.M.T.

(@) Same observatory was previously designated as "Karachi (Drigh Road)".

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MARCH, 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (knots)		Weather Number of days.				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.01" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (NORTH)—																					
Pabna ...	93·4	+1·1	100	12,17,19	65·9	+2·3	58	2, 5	1·25	+0·04	0·45	25	3	+1·1	...	...	0	0	0	0	0
Rajshahi ...	...	...	...	...	...	...	...	...	1·00	—0·17	0·80	26	2	—0·2	...	...	0	0	0	0	0
Sirajganj ...	92·1	...	98	10,11	63·6	...	52	1	0·22	—1·06	0·11	26	1	—1·1	3·3	...	1	0	2	0	0
Bogra ...	93·0	+2·3	99	9,12,19	64·3	+1·3	52	1	0·46	—0·68	0·32	31	2	0·0	2·7	+0·9	3	0	0	0	0
Dinajpur ...	93·0	+3·8	99	12	61·7	+0·8	51	1	0·00	—0·69	0·00	...	0	—1·4	2·5	+0·1	0	0	0	0	2
Rangpur ...	...	...	...	...	...	...	...	...	0·14	—0·86	0·10	26	1	—0·6	...	...	0	0	0	0	0
EAST PAKISTAN (EAST) —																					
Cox's Bazar ...	87·7	+1·4	99	14	66·2	+1·8	56	1	1·81	+0·32	1·16	21	3	+1·5	1·8	—0·9	2	0	7	0	0
Chittagong ...	86·9	—0·2	97	14,15	68·2	+1·0	60	1, 2	1·79	—0·67	1·79	21	1	—1·5	4·5	—0·9	1	0	0	0	0
Nozkhali ...																					
Comilla ...	86·5	—3·2	95	13	70·4	+3·3	60	1	0·38	—2·63	0·20	21	2	—1·5	4·7	+1·3	0	0	3	0	0
Narayanganj ...	92,7	+2·9	99	9,12	68·8	+0·7	60	1	1·53	—0·86	0·60	26	5	+1·8	2·9	+0·1	0	0	0	0	0
Brahmanbaria ...	91·8	+1·8	98	12,13	68·0	+4·0	59	1	1·18	—1·85	0·48	24	3	—0·7	3·2	...	3	0	0	0	0
Srimangal ...	90·5	+0·3	97	12,13,14	62·5	+1·0	49	1	2·73	—0·66	1·73	31	4	—0·9	1·7	—1·6	5	0	0	0	0
Mymensingh ...	90·9	+2·9	97	12,15	62·9	—1·8	58	3, 31	0·46	—1·38	0·21	31	3	0·0	2·7	+1·1	4	0	1	0	0
EAST PAKISTAN (DELTAIC)—																					
Faridpur ...	86·3	—3·0	96	12	66·0	—0·2	54	1	1·84	—0·26	0·85	23	5	+2·1	3·6	+0·3	0	0	5	0	0
Barisal ...	90·5	+0·9	96	9	70·6	+1·8	63	1	2·65	+0·60	0·92	20	4	+0·9	3·0	+0·8	3	0	2	0	0
Khulna ...	92·5	+0·9	99	12	69·0	+0·6	62	2	1·36	—0·28	0·64	21	6	+3·7	3·2	+0·2	2	0	3	0	0
Jessore ...	89·8	—2·1	96	17	63·7	—1·1	50	1	1·32	—0·61	0·56	26	5	+2·1	3·3	+1·5	0	0	4	0	0
Satkhira ...	92·4	—1·3	99	9,10,12	67·9	0·0	62	1, 11	1·63	—0·21	0·49	23	5	+2·5	2·7	+0·6	0	0	5	0	0
KASHMIR —																					
Srinagar †																					
Gulmarg †																					
Sonamarg †																					
Dras †																					
Leh †																					
Skardu †																					
Gilgit †																					
Misgar	45·4	...	53	26	(*)				0·60	...	0·20	19	2	...	4·2	...	0	0	0	0	0
Jammu †																					
Kargil †																					
Gurez †																					
NORTH PUNJAB—																					
Lahore ...	80.6	—2.0	89	8	55.0	+1.8	45	12	0·62	—0·17	0·38	26	2	+0.1	3.0	+1.1	2	0	0	0	0
Sialkot ...	78.8	—1.3	87	8	56.0	+1.8	47	11	2·11	0·60	1·38	26	4	+0.8	2.5	+1.0	1	0	0	0	0
Jhelum ...	78.6	...	88	4,8	52.7	...	42	11	2·79	...	1·28	27	6	...	1.7	...	7	0	0	0	0
Rawalpindi ...	75.1	0.0	84	15	51.2	+0.8	44	11, 12	2·46	—0·21	0·86	19	7	+2.3	2.4	+0.1	3	0	0	0	2
Khushab (b)	78.7	—2.6	89	4,15	53.9	—1.9	34	28	1·44	+0·40	1·30	25	1	—1.5	4.1	+0.4	0	0	0	0	0
Lyallpur ...	79.1	—2.5	86	4 days	53.6	0.0	45	1	1·37	+0·81	0·52	26	4	+2.4	2.2	+0.3	5	0	0	0	0
SOUTH PUNJAB—																					
Montgomery ...	80.5	—3.3	89	17	55.0	—1.0	46	12	2·40	+1·98	1·59	26	2	+0.7	0.2	—2.9	2	0	0	0	0
Multan ...	82.2	—1.7	90	4,5,17	58.0	+0.8	49	12	1·09	+0·69	1·04	26	1	0.0	3.1	+1.6	0	0	0	0	2
Port Abbas ...	86.3	...	94	6	54.6	...	45	12	...	...	0·00	...	0	...	5.2	...	0	0	0	0	0
Bahawalpur ...	81.6	—4.0	92	4,5,17	50.5	—4.7	49	13	0·70	+0·30	0·65	26	1	+0.1	2.3	—0.3	0	0	0	0	0
Khanpur ...	86.0	—0.9	95	4	55.4	+0.9	42	12	0·05	—0·33	0·03	25	0	—0.9	4.3	+0.3	0	0	0	0	0
N.-W. F. P. (UPPER)																					
Chakdara ...	71.3	...	83	6	48.7	...	41	11	4·97	...	1·41	9	7	...	2.6	...	0	0	0	0	0
Peshawar ...	73.0	—1.8	81	4,15	52.0	—0.4	42	1	3·65	+1·21	1·09	25	6	+1.4	2.8	+1.0	3	1	0	0	
Landikotal ...	63.5	...	70	7 days	45.3	...	39	19	5·07	...	1·66	26	9	...	2.9	...	5	0	1	0	

† Data not available. (*) Data rejected. (b) Mean of 29 days. and frequencies for 29 days.

TABLE III.– SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MARCH, 1951 —*contd.*

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (knots)		Weather Number of days				
																			Visibility Code figure 93 or less		
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.01" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
N.-W. F. P. (LOWER)																					
Bannu ...	76·2	—1·8	84	3,14	54·4	+1·5	47	20	2·01	+0·43	0·65	26	5	+1·3	3·3	...	1	0	0	0	0
Miranshah * ...																					
D. I. Khan ...	80·3	—1·5	88	4,3	54·0	—1·0	46	12	2·81	+1·05	1·60	25	3	+0·7	1·9	+0·4	0	0	0	0	0
BALUCHISTAN (NORTH)—																					
Fort Sandeman ...	65·8	—4·1	75	15	38·1	—6·7	26	10	1·45	+0·07	0·65	25	4	+0·4	3·3	+0·3	0	0	0	0	0
Hindubagh ...	60·2	...	70	4	37·6	...	30	10	2·24	...	0·65	25	6	...	5·6	...	2	0	0	0	0
Loralai ...	66·2	...	72	3	40·8	...	33	11	2·49	+1·19	1·05	25	6	+2·9	4·0	...	3	0	0	0	0
Harnai ...									4·54	+3·13	1·49	25	8	+5·1			0	0	0	0	0
Sibi ...	87·5	+1·5	94	4	59·5	+0·1	54	3	0·42	+0·10	0·30	25	1	+0·1	26	—0·5	3	0	0	0	0
Quetta ...	59·1	...	69	4	38·4	...	29	2, 10	3·57	...	0·57	18	10	...	4·0	+1·2	0	0	0	0	0
Quetta (Sumangli) ...	60·1	...	70	4	36·8	...	27	2	3·58	...	0·71	18	10	...	5·5	...	4	2	0	2	0
Chaman ...	63·3	—3·2	74	15	44·9	—1·1	34	10	3·38	+1·89	0·64	16	11	+7·0	9·9	+4·8	4	0	0	0	0
Nushki ...	70·5	...	80	15	51·3	...	40	10	2·90	...	0·62	16	6	...	8·9	...	0	0	0	0	3
Kalat ...	57·6	—3·1	67	4	35·0	—1·0	27	2	4·44	+3·39	1·10	18	8	+5·0	3·9	—0·9	0	0	0	0	0
Dalbandin ...	74·3	—3·5	83	15	46·8	—0·9	36	10	0·48	+0·08	0·18	18	2	+0·6	4·4	+0·4	0	0	0	9	2
Nokkundi ...	77·3	—0·8	88	15	50·8	—1·0	35	26	0·43	+0·31	0·14	18	1	+0·4	5·1	—1·0	0	0	0	0	0
BALUCHISTAN (SOUTH)																					
Lasbela ...	93·2	+4·3	100	5	58·0	+1·0	45	11	0·00	—1·03	0·00	...	0	—1·4	2·7	+0·3	2	0	0	0	4
Ormara ...	83·2	+1·3	90	3	66·2	+0·8	57	12	1·22	+0·99	1·22	29	1	+0·3	8·8	+1·1	0	0	1	0	0
Pasni ...	84·8	+0·2	92	35	61·7	—0·2	54	12	0·25	—0·26	0·20	28	1	+0·3	7·3	+1·8	0	0	0	0	1
Turbat ...	90·6	...	99	4	62·4	...	56	13	0·97	...	0·81	29	1	...	3·8	...	0	0	0	0	0
Panjgur ...	73·9	—4·2	84	4	45·5	—4·7	40	11	1·10	+0·50	0·54	29	3	+1·7	3·3	—1·4	0	0	0	0	1
SIND (UPPER)—																					
Reti ...	90·0	...	97	4 days	55·6	...	50	1,2	0·46	...	0·45	30	1	...	4·7	...	1	0	0	0	0
Jacobabad ...	87·3	—2·3	95	5	59·8	—0·8	51	12	0·05	—0·17	0·05	24	0	—0·7	5·0	+1·0	0	0	0	0	0
Sukkur ...	86·9	—1·0	95	5	58·4	—1·2	53	11,12	0·05	—0·19	0·05	30	0	—0·9	1·7	—1·6	0	0	0	1	1
Padidan ...	86·8	...	95	5	56·1		46	11,12	0·04	...	0·04	25	0	...	3·1	...	0	0	0	0	0
SIND (LOWER)—																					
Umarkot ...	93·1	...	1.02	5	61·1	...	51	12	0·00	...	0·00	...	0	...	3·6	...	0	0	0	0	0
Chhor ...	‡	...	...	...	58·5	...	48	12	0·03	...	0·02	24	0	...	3·7	...	2	0	0	0	0
Hyderabad ...	91·6	—0·9	98	5	63·9	+0·1	55	12	0·00	—0·20	0·00	...	0	—0·4	4·0	—0·3	0	0	0	0	1
Karachi (Airport) (X) ...	89·0	...	97	4	64·2	...	55	12,13	0·01	...	0·01	27	0	...	6·9	...	0	0	0	1	4
Karachi (Manora) ...	83·7	+1·9	95	4	69·8	+1·7	63	12	0·00	—0·29	0·00	...	0	—0·6	5·7	—1·4	0	0	0	6	0
Badin ...	94·5	+2·8	10·2	5	62·4	+0·7	55	15	0·00	—0·15	0·00	...	0	—0·2	4·1	...	0	0	0	0	0
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN—																					
Murree ...	52·7	—2·9	62	15	39·9	+2·1	33	10,19	4·98	+0·17	1·26	20	8	+0·7	7·3	+2·1	5	5	12	0	0
Cherat ...	58·6	—2·6	70	1	47·5	—0·2	41	11,19	8·15	+3·86	3·15	25	8	+2·4	(L) 8·3	+0·6	1	0	6	0	0
Drosh ...	57·4	—0·7	69	30,31	40·6	+0·2	30	11	7·24	+3·51	1·05	7	15	+7·6	3·2	+0·1	1	1	0	0	0
Parachinar ...	58·7	—1·1	68	4,5	39·1	+0·5	28	10	6·37	+2·03	1·58	6	11	+2·7	3·7	+1·3	0	1	0	0	0
Wana ...	(*)	...	...	...	39·3	—0·7	33	11	3·81	+1·88	1·79	26	7	+3·1	✱	...	0	0	0	0	0
AFGHANISTAN—																					
Jalalabad ...	(*)	...	...	...	(*)	...	...	...	3·00	...	1·15	10	6	...	1·7	...	2	0	0	0	0
Kabul ...	53·2	+0·4	62	15,31	35·6	+2·0	31	19,20	3·84	+2·05	0·87	6	10	+2·9	3·2	+0·6	0	0	0	0	0
Kandahar ...	67·4	...	78	15	40·6	...	32	10	2·76	...	0·50	16	8	...	1·7	...	0	0	0	0	0
IRAN																					
Jask— ...	79·8	—0·7	86	2,3	65·1	—1·5	57	16	0·77	+0·12	0·40	17	3	+1·6	6·5	—1·1	0	0	0	0	1
ARABIA—																					
Muscat ...	78·1	—2·9	84	8	70·9	—1·0	10,11	...	2·45	+2·05	2·25	17	2	+0·9	2·6	0·0	0	0	0	0	0
Kuwait † ...	73·5	...	90	25	(*)	...	...	...	0·41	...	0·41	20	1	...	4·0	...	0	0	0	0	0

‡ Data not available. (*) Data rejected. (L) Mean for 18 days. (†) Observations recorded at 05·30 hrs. G. M. T. instead of 0300 hours G. M. T.

(X) Same observatory was previously designated as "Karachi (Drigh Road)".

(a) Ext. Sor.—5-7-57—200
(b) Same.

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PAKISTAN WEATHER REVIEW 1951

MONTHLY WEATHER REPORT

APRIL

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Chief Features.—Two active western disturbances caused fairly widespread precipitation over West Pakistan during the first 9 days of the month.

2. Norwesters were active in East Pakistan during the last week.

West Pakistan.— Seven western disturbances moved across West Pakistan during the month. Of these the first two were quite active. The first disturbance lay over North Baluchistan on the 1st. It moved northeastwards across the North West Frontier Province and the north Punjab and finally filled up over Kashmir by the 4th morning. It caused fairly widespread thunder showers or rain from the northeast Baluchistan to the Punjab hills and the Upper N. W. F. P. during the first three days of the month.

The second western disturbance began affecting the north Arabian Sea and South Baluchistan on the 3rd. While moving in a northeasterly direction through Sind and Punjab, it lay as a depression over the Punjab on the 7th. It moved away across Kashmir during the next three days. This depression caused local showers in North East Baluchistan and scattered rain in the South Punjab on the 5th ; and widespread thundershowers over the whole of West Pakistan to the north and east of North East Baluchistan and Upper Sind on the 7th. On the 8th it caused widespread thundershowers in the north Punjab and the N. W. F. P. A few thundershowers were also reported from the south Punjab and the Upper Sind on the 7th and 8th.

The remaining five disturbances were feeble and caused only a few light showers and dust-thunderstorms in the north Punjab, the N. W. F. P. and the north Baluchistan during the rest of the month.

The chief amount of rainfall recorded during the month were :—

Harnai 1-1/2" on the 1st ; Rawalpindi and Murree 1" each on the 2nd ; Murree 1-1/2", Lyallpur, Rawalpindi and Cherat 1" each on the 3rd ; Rawalpindi 1-1/2" and Parachinar 1" on the 7th ; Cherat and Landikotal 2" each, Miranshah 1-1/2", Peshawar, Bannu and Rawalpindi 1" each on the 8th.

The mean rainfall during the month was in slight defect over lower Sind, in moderate defect over the Upper N. W. F. P. in large defect over South Baluchistan. It was in large excess elsewhere.

The mean maximum temperature was normal over lower Sind and below normal elsewhere. The mean minimum temperature was normal over the South Punjab and Sind and below normal in other sub-divisions. The mean relative humidity was in defect over south Baluchistan, in excess over the Punjab and the Upper Sind and normal elsewhere. The mean cloudiness was normal over West Pakistan except the South Baluchistan and the Lower Sind where it was below normal.

East Pakistan.—A low pressure wave moving eastwards across India caused incursion of moist air into East Pakistan where local rain and thundershowers occurred during the first four days of the month.

Two other low pressure waves moving eastwards across the region caused a few light showers in the Eastern Sub-division on the 5th, 7th, 15th and 16th.

Incursion of moisture became marked again on the 19th and continued till the end of the month. Local to fairly widespread rain or thundershowers occurred in the region during this period. Severe thunderstorms accompanied with squalls were reported from some stations in the Eastern Sub-division towards the end of the month.

According to press reports nearly one hundred persons were believed to have been killed due to the collapse of the walls of a jute mill 19 miles from Dacca when a severe squall struck the place on the afternoon of the 24th. Many huts and houses also collapsed.

The standing paddy crop in four thanas of Mymensingh district were completely destroyed.

The noteworthy amounts of rainfall recorded during the month were :—

Chittagong 3" on the 20th and 2" each on 26th and 27th ; Comilla 2" each on the 21st and the 25th ; Cox's Bazar 2" on the 22nd and the 28th ; Brahmanbaria 2" on the 27th ; Narayanganj 2" on the 28th and 4" on the 29th.

The mean rainfall in the month was in slight excess over the Eastern Sub-division in moderate defect over the Deltaic Sub-division and in large defect over the Northern Sub-division. Over the region as a whole, it was in slight defect.

The mean maximum and minimum temperatures and relative humidity were normal over the entire region except that the mean maximum temperature was above normal and the mean relative humidity was in defect over the Northern Sub-division. The mean cloudiness was normal over the region.

Table I contains the Divisional and Sub-divisional means of rainfall, temperature, relative humidity and cloud amount for the 5 chief Divisions and 12 Sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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Sub-Division and Station	Hours of observation.	Height of bar. cistern above mean sea level.	Mean pressure: Station level reduced to standard temp. and gravity.	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M. S. L. nearest G.P.K. M. level.	Mean temperature of the air and humidity: Dry bulb	Wet Bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	mb.	mb.	mb.	°F	°F	°F	mb.	mb.	%	%	Oktas	Oktas									
East Pakistan (North)																							
Pabna	0300	...	...	...	...	85·7	75·2	70·0	25·4	—2·1	59	—13	...	...	...	...	...	...	...	...	...	...	...
Sirajganj	0000	49	1004·4	...	1006·1	72·2	69·5	67·4	23·5	...	87	...	3·9	...	0	0	4	3	2	0	0	0	21
	0300	...	1006·4	...	1008·1	82·4	73·3	66·5	23·7	...	64	...	4·0	...	1	1	7	7	4	0	2	0	8
	1200	...	1001·0	...	1002·9	91·8	72·4	59·2	18·4	...	37	...	2·2	...	0	1	7	1	0	2	3	0	16
Bogra	*0000	65	1003·9	...	1006·2	72·6	67·8	64·8	21·1	...	76	...	3·5	...	0	0	4	2	2	0	0	0	22
	0300	63	1005·7	—0.9	1008·1	81·4	71·1	64·4	20·7	—4·0	59	—10	3·1	—0·3	0	1	11	7	0	5	4	2	0
	1200	63	1000·3	...	1002·3	94·1	69·5	49·8	13·5	...	25	...	0·9	...	0	0	4	1	0	6	10	5	4
Dinajpur	0000	123	1002·8	...	1007·0	69·6	63·7	59·5	17·7	...	70	...	1·8	...	0	12	3	0	0	1	3	0	11
	0300	...	1004·7	+0.4	1008·9	80·4	68·2	58·8	18·0	—3·7	51	—14	2·5	—0·7	0	13	2	0	0	2	6	0	7
	1200	...	999·0	...	1003·1	93·4	69·9	52·6	14·6	...	28	...	0·5	...	0	0	2	1	0	4	10	0	13
East Pakistan (East)																							
Cox's Bazar	0000	38	1008·0	...	1009·4	73·7	72·1	71·2	26·6	...	93	...	2·9	...	0	2	2	0	2	0	0	0	24
	0300	...	1009·0	—0.3	1010·4	83·2	77·0	74·1	29·0	—0·3	75	0	2·9	—0·4	0	0	1	1	12	0	0	0	16
	1200	...	1006·2	...	1007·6	82·4	76·4	73·5	27·9	...	75	...	(b) 2·9	...	(b) 0	0	0	0	13	1	2	0	13
Chittagong	0300	87	1007·3	—0.2	1010·3	81·7	74·6	71·2	26·5	—1·6	71	—4	4·0	+0·6	1	2	3	9	3	0	0	0	12
	1200	...	1003·4	...	1006·3	82·2	75·5	71·9	27·2	...	73	...	4·2	...	0	0	0	2	7	9	2	1	9
Comilla	0000	29	1005·2	...	1007·2	73·9	72·3	71·6	26·6	...	93	...	4·4	...	0	2	1	4	18	0	0	0	5
	0300	...	1008·3	—0.3	1009·3	81·6	77·2	75·0	30·2	+1·4	81	+10	4·2	+0·7	1	1	1	9	17	1	0	0	0
	1200	...	1005·6	...	1006·6	83·0	79·2	77·4	32·0	...	83	...	5·3	...	0	0	1	6	18	4	0	1	0
Narayanganj	0000	26	1005·6	...	1006·5	75·9	73·7	72·5	27·8	...	88	...	4·5	...	0	1	2	4	11	4	3	0	5
	0300	...	1007·4	—1.1	1008·2	84·6	76·5	72·4	28·1	+0·2	68	—7	4·5	+0·3	0	1	1	3	12	7	1	3	2
	1200	...	1002·9	...	1003·8	82·9	73·6	68·5	23·9	...	65	...	4·0	...	0	1	2	6	18	1	0	0	2
Brahmanbaria	0000	32	1006·5	...	1007·6	73·2	70·7	69·1	24·3	...	88	...	3·8	...	0	0	3	6	7	0	0	0	14
	0300	...	1008·0	...	1009·1	83·7	75·5	71·6	27·0	+1·4	68	—1	4·0	...	0	0	0	6	16	3	2	0	3
	1200	...	1004·0	...	1005·0	81·9	72·3	66·7	23·0	...	63	...	2·9	...	0	0	1	2	15	3	0	0	9
Srimangal	0000	69	1005·7	...	1007·9	69·8	68·2	67·0	23·1	...	91	...	5·9	...	2	0	2	0	6	0	0	0	20
	0300	...	1007·5	—0.3	1009·7	78·2	72·2	69·0	24·1	—1·9	74	—3	5·1	+1·6	0	0	10	1	16	0	1	0	2
	1200	...	1002·9	...	1005·0	80·0	73·1	68·9	24·0	...	71	...	5·1	...	1	1	6	3	6	0	6	0	7
Mymensingh	0000	62	1005·1	...	1007·3	72·5	69·3	67·4	23·7		85	...	5·0	...	0	0	14	2	0	1	0	0	13
	0300	...	1007·3	—0.3	1009·5	79·9	72·8	68·9	24·6	—0·8	70	—4	5·2	+0·5	0	0	13	3	1	0	4	0	9
	1200	...	1002·4	...	1005·2	88·6	74·5	66·5	23·3	...	53	...	2·6	...	0	0	11	1	2	0	4	0	12
East Pakistan (Deltaic)																							
Faridpur	0000	46	1005·4	...	1006·8	74·3	72·5	71·2	25·9	...	90	...	3·6	...	0	3	21	1	0	0	0	0	5
	0300	...	1006·7	—0.3	1008·3	84·3	77·0	73·2	27·8	—0·3	69	0	3·6	+0·5	0	2	22	4	0	0	0	0	2
	1200	...	1003·2	...	1004·7	89·6	73·6	62·9	21·4	...	44	...	4·4	...	0	5	18	6	0	0	0	0	1
Barisal	0000	11	1006·5	...	1006·9	76·8	75·0	74·2	28·7	...	91	...	4·8	...	0	0	1	2	11	8	1	0	7
	0300	...	1008·7	—0.3	1009·1	85·2	77·7	74·2	28·8	—1·1	70	—5	4·2	+0·4	1	1	0	4	12	8	2	1	1
	1200	...	1004·5	...	1004·9	85·6	76·5	71·9	27·6	...	65	...	4·7	...	1	1	0	3	18	5	1	0	1
Khulna	0000	16	1006·4	...	1006·9	77·4	75·5	74·7	28·7	...	91	...	4·0	...	0	0	0	1	9	12	2	0	6
	0300	...	1008·4	0·0	1008·9	85·4	78·2	74·6	29·6	+0·8	75	+3	3·1	—1·0	0	0	0	1	4	13	8	0	4
	1200	...	1003·9	...	1004·4	87·2	78·2	78·5	28·7	...	74	...	2·9	...	0	0	0	5	15	6	2	0	2
Jessore	0000	26	1005·7	...	1006·6	74·9	72·6	71·4	26·1	...	89	...	3·0	...	0	0	0	1	15	6	0	0	8
	0300	...	1007·3	—0.6	1008·2	85·4	76·4	71·9	26·6	—2·2	65	—8	2·8	—0·5	0	0	0	0	11	13	2	2	2
	1200	...	1003·3	...	1004·1	90·5	74·3	65·3	22·4	...	46	...	2·6	...	1	1	0	1	13	7	2	1	4
Satkhira	0000	16	1006·5	...	1007·1	77·6	75·1	73·9	29·0	...	88	...	5·7	...	0	0	0	2	4	21	0	0	3
	0300	...	1007·4	—0·9	1007·9	83·7	78·0	75·7	30·8	+1·6	78	+8	5·0	+2·0	0	0	0	2	3	22	0	3	0
	1200	...	1004·4	...	1004·8	90·3	81·8	78·6	32·9	...	70	...	4·3	...	0	0	0	5	5	13	2	0	5

(b) Mean for 29 days.

* Observations at 0000 hrs. recorded from distant site by P. B. O. staff.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL 1951—*contd.*

Sub-Division and Station	Hours of observation.	Height of bar. cistern above mean sea level	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temp. and M.S.L. or nearest G.P. Km. level	Mean temperature of the air and humidity: Dry Bulb	Wet Bulb	Dew Point	Vapour Pressure	Departure from normal	Relative humidity	Departure from normal	Total cloud amount: Mean Amount	Departure from normal.	Wind direction, Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Feet	mbs.	mbs.	mbs.	°F	°F	°F	mbs.	mbs.	%	%	Oktas	Oktas									
KASHMIR																							
Srinagar*	0000	5,205																					
	0300																						
	1200																						
Gulmarg*	0000	8,709																					
	0300																						
	1200																						
Dras*	0000	10,059																					
	0300																						
	1200																						
Leh*	0000	11,529																					
	0300																						
	1200																						
Skardu*	0000	7,505																					
	0300																						
	1200																						
Gilgit*	0000	4,890																					
	0300																						
	1200																						
Misgar (R)	0000	10,190																					
	0300																						
	1200																						
NORTH PUNJAB																							
Lahore	0000	702	982·7	...	1007·5	63·5	57·7	52·6	13·7	...	67	...	1·5	...	0	6	3	1	1	0	1	0	18
	0300	...	984·1	+0·7	1008·5	72·5	61·6	52·9	13·8	+0·4	51	+7	1·7	—0·6	3	7	4	2	0	1	3	3	7
	1200	...	981·7	...	1005·4	86·3	65·3	48·3	11·8	...	27	...	2·4	...	4	4	1	0	0	2	8	8	3
Sialkot	0000	830	978·2	...	1007·3	65·7	58·0	51·1	12·8	...	60	...	2·5	...	3	9	0	0	0	1	1	6	10
	0300	...	979·8	+0·6	1008·8	71·2	60·8	52·3	13·5	—0·1	51	+1	2·5	+0·6	1	10	2	1	0	1	0	14	1
	1200	...	977·2	...	1005·2	84·8	65·8	51·5	13·1	...	32	...	4·0	...	0	3	1	0	0	10	6	3	7
Jhelum	0000	765	981·0	...	1008·1	61·7	57·2	53·4	13·9	...	74	...	2·3	...	0	3	0	2	2	1	0	3	19
	0300	...	982·2	...	1008·8	69·8	60·1	52·2	13·4	...	54	...	2·6	...	3	0	3	2	2	1	5	6	8
	1200	...	979·6	...	1005·3	84·8	64·2	46·3	11·9	...	27	...	4·3	...	1	1	0	3	2	4	7	4	8
Rawalpindi	0000	1,676	950·4	...	1009·2	57·4	53·7	50·4	12·6	...	77	...	2·0	...	0	0	0	0	0	0	0	0	(b) 29
	0300	...	951·4	—0·1	1009·2	67·1	57·2	49·2	11·9	—1·1	53	+5	2·8	+0·2	1	0	0	0	0	1	1	0	27
	1200	...	949·4	...	1005·9	78·6	61·3	48·1	11·5	...	34	...	3·9	...	1	2	1	0	2	0	10	1	13
Khushab	0000	616	986·0	...	1007·8	64·5	57·6	51·9	13·1	...	63	...	1·3	...	7	7	3	2	2	3	1	1	4
	0300	...	987·5	+0·4	1009·0	71·9	60·9	52·0	13·3	+0·3	50	+7	2·1	—0·1	3	8	7	5	1	2	2	0	2
	1200	...	984·7	...	1005·5	86·5	63·7	44·6	9·5	...	23	...	3·5	...	4	7	3	5	2	3	1	4	1
Lyallpur	0000	605	985·2	...	1006·7	64·8	58·3	52·6	13·7	...	65	...	1·9	...	3	4	5	3	2	1	1	2	9
	0300	...	987·0	+0·1	1008·2	69·9	60·2	55·2	13·4	+0·6	53	+7	1·4	—1·7	4	1	2	3	2	1	0	0	17
	1200	...	984·5	...	1005·0	86·1	65·4	49·3	12·1	...	28	...	2·6	...	1	2	4	1	1	2	4	5	10

* Data not available. (R) Register not received. (b) Mean of 29 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL 1951—*contd.*

Sub-Division and Station	Hours of observation.	Height of bar. cistern above mean sea level	Mean pressure: Station level reduced to standard temperature and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. and M.S.L. or nearest G.P. Km. level	Mean temperature of the air and humidity: Dry Bulb	Wet Bulb	Dew Point	Vapour Pressure	Departure from normal	Relative humidity	Departure from normal	Total cloud amount: Mean amount	Total cloud amount: Departure from normal	Wind direction, Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Feet	mbs.	mbs.	mbs.	°F	°F	°F	mbs.	mbs.	%	%	Oktas	Oktas									
SOUTH PUNJAB																							
Montgomery	0000	558	987·5	...	1007·2	64·7	58·8	53·5	13·9	...	71	...	1·3	...	0	3	0	1	1	5	1	0	19
	0300	...	989·1	+0·7	1008·5	71·6	61·8	54·9	14·2	—1·4	53	—3	1·2	—0·4	0	4	0	3	4	8	2	1	8
	1200	...	986·3	...	1005·1	85·2	66·5	50·7	11·8	...	27	...	1·9	...	0	1	2	4	1	4	0	2	16
Multan																							
	0300	413	994·1	+0·5	1008·6	72·0	63·0	56·3	15·6	—0·8	61	+10	1·8	+0·1	7	3	0	2	3	0	0	4	11
	1200	...	990·8	...	1004·7	89·5	67·3	50·7	12·9	...	31	...	2·7	...	7	3	2	0	5	2	0	4	7
Fort Abbas	0000	475	990·2	...	1006·4	66·2	60·2	56·5	15·1	...	55	..	1·0	...	1	12	0	6	1	3	0	1	6
	0300	...	990·7	...	1007·2	73·8	66·1	61·2	18·4	...	62	...	0·9	...	3	7	2	10	1	5	0	1	1
	1200	...	987·7	...	1003·7	90·2	(d) 71·2	(d) 59·4	17·5	...	59	...	0·9	...	1	7	2	1	0	1	4	14	0
Bahawalpur	0300	384	994·9	—0·1	1008·4	70·9	64·2	57·2	17·5	+1·5	69	+19	1·6	—0·2	1	5	1	0	0	2	1	0	20
	1200	...	991·9	...	1004·8	90·5	69·7	55·2	15·4	...	31	...	1·0	...	5	3	0	0	0	2	2	2	16
Khanpur	0300	297	998·4	+0·3	1008·8	73·0	62·7	50·0	14·8	+1·6	53	+11	1·4	0·0	10	8	3	0	3	3	2	1	0
	1200	...	994·3	...	1004·3	92·9	66·9	45·1	11·3	...	21	...	0·9	...	8	6	1	0	1	5	6	3	0
N.-W. F. P. (UPPER)																							
Chakdara	0000	~~2,197~~ 2225	932·5	...	1009·9	57·5	50·9	44·4	10·1	...	63	...	1·3	...	5	0	3	5	4	0	2	2	9
	0300	...	933·7	...	1010·7	61·1	53·1	46·5	10·5	...	57	...	1·5	...	0	0	5	11	3	1	1	0	9
	1200	...	931·1	...	1005·7	75·9	60·1	47·6	11·3	...	36	...	2·1	...	11	2	0	1	2	2	1	4	7
Peshawar	0000	1,175	967·8	...	1009·2	59·2	53·9	48·5	11·8	...	68	...	3·2	...	1	0	1	5	5	9	1	2	6
	0300	...	969·3	—0·2	1010·1	67·4	58·8	50·9	13·0	—0·7	57	+1	3·5	—0·2	1	1	0	2	4	2	1	1	18
	1200	...	966·7	...	1006·6	78·4	61·5	44·5	11·1	...	33	...	5·0	...	3	4	4	5	3	0	5	1	5
Landikotal	0000	3,503	890·5	...	895·5	54·7	49·3	41·9	10·1	...	67	...	3·0	...	0	0	0	1	0	0	0	6	23
	0300	...	891·7	...	896·6	62·0	53·5	44·8	10·6	...	56	...	3·3	...	0	1	0	1	0	0	0	7	21
	1200	...	889·8	...	894·6	70·1	59·5	51·0	13·0	...	53	...	4·8	...	1	7	0	6	1	4	0	10	1
N.-W. F. P. (LOWER)																							
Bannu	0000	1,264	964·5	...	1008·8	61·9	55·3	49·2	11·9	...	64	...	1·8	...	2	4	0	1	0	4	5	8	6
	0300	...	965·8	...	1009·7	67·2	58·2	49·6	12·5	—0·5	55	+4	2·2	+0·5	1	1	1	0	0	4	2	7	14
	1200	...	963·9	...	1006·8	80·5	62·8	46·5	11·5	...	34	...	4·0	...	1	3	1	6	0	4	3	2	10
Miranshah	0000	3,026	905·7	...	895·2	57·8	49·1	38·6	8·4	...	53	...	1·1	...	0	3	7	10	2	6	0	1	1
	0300	...	907·5	...	896·9	60·4	50·8	39·4	8·8	—0·9	49	—2	1·8	—0·3	1	0	0	1	0	3	2	7	16
	1200	...	905·6	...	895·3	72·5	56·7	41·0	9·8	...	34	...	4·3	...	1	5	7	10	1	2	0	3	1
D. I. Khan	0000	570	987·1	...	1007·1	64·9	60·0	55·6	15·4	...	73	...	1·9	...	5	5	2	0	0	2	4	5	7
	0300	...	988·5	—0·2	1008·5	68·6	61·7	56·5	15·7	—0·3	65	+9	1·9	—0·3	4	9	2	0	2	1	4	4	4
	1200	...	985·8	...	1005·1	85·2	68·0	55·6	15·6	...	38	...	3·1	...	2	8	2	3	3	4	1	3	4
BALUCHISTAN (North)																							
Fort Sandeman	0300	4,614	857·0	—1·8	896·6	58·2	50·8	35·4	9·5	+1·5	49	—14	2·1 (b)	+0·1	1	2	0	0	0	0	0	0	26 (b)
	1200	...	855·3	...	893·5	72·7	56·8	23·7	9·1	...	16	...	3·5 (b)	...	0	10	0	0	0	6	0	5	8 (b)
Hindubagh	0000	5,950	818·1	...	795·7	47·8	42·5	34·7	7·5	...	65	...	1·7	...	2	0	1	0	7	14	5	0	1
	0300	...	819·3	...	797·0	57·0	47·1	37·1	7·4	...	47	...	1·6	...	0	1	0	1	1	13	4	3	7
	1200	...	817·3	...	794·8	65·8	50·0	32.7	6·7	...	31	...	3·0	...	0	0	1	1	3	15	5	5	0
Loralai	0000	4,699	854·2	...	896·6	50·1	45·1	36·7	8·0	...	67	...	2·4 (b)	...	2	2	1	1	0	8	8	0	7 (b)
	0300	...	854·6	...	897·0	59·1	50·0	40·5	8·2	...	51	...	1·4	...	0	2	1	2	0	8	5	6	6
	1200	...	852·6	...	893·8	72·3	54·5	36·5	6·4	...	26	...	4·3	...	0	0	1	7	0	10	3	6	3

(d) Mean of 27 days.

(b) Mean of 29 day.

Sub-Division and Station	Hours of observation.	Height of bar. cistern above mean sea level.	Mean Pressure			Mean temperature of the air and humidity							Total cloud amount		Wind direction, Number of observations from:—								
			Station level reduced to standard temperature and gravity.	Departure from normal.	Reduced to standard temp. and M.S.L. or nearest G.P. Km. level.	Dry Bulb.	Wet Bulb.	Dew Point.	Vapour Pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Mean amount.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Feet	mbs.	mbs.	mbs.	°F	°F	°F	mbs.	mbs.	%	%	Oktas	Oktas									
BALUCHISTAN (North)—*contd.*																							
Sibi	0000	441	991·2	...	1006·6	71·1	58·2	46·1	10.6	...	41	...	0·4	...	0	3	3	2	0	1	1	3	17
	0300	...	993·3	+0·9	1007·0	72·0	61·3	49·1	13.7	+3·9	52	+21	2·4	+0·5	3	1	2	1	0	0	1	1	21
	1200	...	988·9	...	1001·8	94·4	66·8	48·6	10.5	...	18	...	4·0	...	1	0	1	5	6	5	7	5	0
Quetta	0300	5,490	830·8	—2·0	795·1	54·9	49·0	45·0	10.1	+1·0	67	+4	2·2	+0·1	3	7	1	0	5	3	1	0	10
	1200	...	829·5	...	794·5	67·6	53·4	40·0	8.7	...	41	...	3·6	...	4	1	1	0	1	5	5	13	0
Quetta (Samungli)	0000	5,253	840·0	...	796·0	46·7	42·6	38·3	8.2	...	74	...	1·9	...	0	0	3	6	0	3	1	5	12
	0300	...	840·8	...	797·6	53·8	47·7	42·3	9.3	...	65	...	2·2	...	0	2	2	7	1	2	0	4	12
	1200	...	838·7	...	796·9	69·2	54·4	43·3	8.9	...	37	...	3·8	...	2	1	2	2	0	2	10	10	1
Chaman	0000	4,311	866·2	...	896·9	57·1	44·9	35·2	5.3	...	34	...	1·8	...	0	1	13	12	2	1	1	0	0
	0300	...	867·9	—0·1	897·6	62·0	51·2	40·1	8.6	—0·1	44	—1	2·8	+0·4	2	0	7	9	5	5	0	2	0
	1200	...	866·5	...	896·5	72·5	56·1	40·3	8.6	...	32	...	3·7	...	0	1	2	2	2	5	7	11	0
Nushki	0000	3,412	899·6	...	901·5	63·7	53·7	44·2	9.0	...	45	...	2·2 (*b*)	...	0	6	14	3	0	0	0	0	6 (*b*)
	0300	...	901·0	...	902·7	69·2	55·8	42·9	9.2	...	37	...	2·3	...	0	7	11	5	2	0	1	0	4
	1200	...	897·7	...	899·4	81·6	62·4	46·7	10.6	...	30	...	2·9	...	0	1	1	1	0	7	5	13	2
Kalat	0000	6,616	798·4	...	795·8	44·1	40·7	35·8	7.3	...	75	...	0·0	...	0	0	0	0	9	0	0	0	21
	0300	...	799·7	+0·1	796·8	50·7	43·9	37·1	7.2	—1·8	58	+2	0·5	—1·3	0	1	0	0	16	1	0	1	11
	1200	...	798·3	...	795·8	64·3	50·9	38·6	7.7	...	38	...	1·0	...	9	0	1	1	1	1	3	14	0
Dalbandin	0000	2,785	914·8	...	896·1	59·7	49·4	37·9	7.8	...	43	...	0·9	...	2	8	0	0	0	2	2	3	13
	0300	...	916·3	+0·5	897·9	61·8	51·2	40·0	8.7	—0·5	45	0	1·8	—0·1	0	4	1	3	1	1	1	0	19
	1200	...	913·9	...	895·9	83·9	61·0	38·3	9.0	...	23	...	2·6	...	0	4	3	1	1	6	7	6	2
Nokkundi	0000	2,229	932·1	...	1014·7	66·1	56·0	47·1	11.2	...	52	...	0·5	...	9	6	1	0	1	0	0	6	7
	0300	...	934·1	...	1009·6	70·9	58·6	48·5	12.5	+1·5	44	—1	0·8	—1·1	7	2	0	0	2	1	1	9	8
	1200	...	931·0	...	1003·9	88·3	66·1	48·6	12.7	...	29	...	2·7	...	6	1	1	1	3	1	2	13	2
BALUCHISTAN (South)																							
Lasbela	0000	292	998·8	...	1009·2	70·0	61·1	52·0	14.4	...	57	...	0·5	...	0	0	0	0	1	1	0	0	28
	0300	...	999·6	+0·2	1011·8	78·3	66·9	60·5	17.2	—4·9	52	—16	0·2	—1.2	0	0	0	1	3	3	0	0	23
	1200	...	995·1	...	1005·7	94·7	70·9	53·2	14.9	...	27	...	1·0	...	0	0	2	3	8	12	4	1	0
Ormara	0000	15	1007·4	...	1007·9	72·7	65·9	64·6	18·6	...	68	...	1·1	...	0	0	0	1	2	8	8	1	10
	0300	...	1009·4	...	1009·9	76·1	70·7	67·1	23·5	—2·2	75	—9	1·5	—0·3	0	1	3	0	1	7	7	1	10
	1200	...	1006·0	...	1006·5	84·7	71·2	61·7	19·6	...	49	...	0·7	...	0	0	0	0	2	14	14	0	0
Pasni	0000	10	1008·0	...	illegible	66·8	63·3	61·0	18·6	...	85	...	0·7	...	1	0	0	0	0	3	17	5	4
	0300	...	1010·1	+0·8	1010·2	72·3	66·5	61·4	19·5	—4·2	71	—10	0·7	—0·7	0	1	1	0	0	3	9	9	7
	1200	...	1006·9	...	1007·0	83·9	71·6	63·5	20·1	...	53	...	0·2	...	0	1	0	0	0	26	2	1	0
Turbat	0000	510	993·4	...	1010·9	70·4	62·2	54·9	15·6	...	60	...	0·6	...	0	1	0	1	0	0	0	0	28
	0300	...	994·9	...	1012·4	75·4	64·5	53·7	15·8	...	52	...	0·7	...	0	2	3	0	0	1	0	0	24
	1200	...	990·9	...	1007·4	97·1	70·6	50·9	13·5	...	22	...	0·9	...	4	0	0	0	2	8	12	1	3
Panjgur	0000	3,177	902·2	...	896·6	60·7	51·9	41·1	9·6	...	52	...	0·8	...	3	16	1	1	0	3	0	5	1
	0300	...	903·1	0·0	897·4	63·0	52·8	40·6	9·5	—3·1	49	—14	0·5	—0·8	6	17	0	0	0	1	1	5	0
	1200	...	900·8	...	895·4	83·8	59·5	29·6	7·6	...	18	...	1·1	...	0	2	0	1	0	9	2	16	0
SIND (Upper)																							
Reti	0000	280	997·9	...	1007·7	67·7	60·2	54·4	14·4	...	63	...	0·1	...	11	6	3	0	2	0	2	2	4
	0300	...	999·5	...	1009·4	73·2	62·7	54·4	14·7	...	53	...	0·4	...	9	7	4	0	3	2	2	1	2
	1200	...	996·1	...	1005·5	95·9	67·2	42·1	9·9	...	17	...	0·2	...	10	2	2	0	0	1	14	1	0
Jacobabad	0000	183	1000·1	...	1006·5	71·1	61·6	54·1	14·5	...	55	...	1·0	...	4	1	11	5	1	1	2	3	2
	0300	...	1002·1	+0·9	1008·5	77·0	65·3	57·4	16·0	—0·7	51	+5	1·2	0·0	1	1	6	8	0	0	3	4	7
	1200	...	998·2	...	1004·4	95·6	71·2	52·9	15·0	...	26	...	2·0	...	2	3	3	6	3	4	1	6	2

(*b*) Mean of 29 days.

illegible Data not available.

Sub-Division and Station	Hours of observation.	Height of bar. cistern above mean sea level.	Mean pressure			Mean temperature of the air and humidity							Total cloud amount		Wind direction, Number of observations from:—								
			Station level reduced to standard temperature and gravity.	Departure from normal.	Reduced to standard temp. and M.S.L. or nearest G.P. K. m. level.	Dry Bulb.	Wet Bulb.	Dew Point.	Vapour Pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Mean amount.	Departure from normal.	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Feet	mbs.	mbs.	mbs.	°F	°F	°F	mbs.	mbs.	%	%	Oktas	Oktas									
SIND (Upper)—contd.																							
Sukkur	0300	221	1000·3	—0·3	1008·1	71·2	62·6	56·5	15·5	+0·2	61	+10	1·2	—0·1	3	3	3	11	0	3	1	2	4
	1200	...	997·0	...	1004·4	90·9	71·2	56·6	17·2	...	29	...	1·6	...	4	4	1	5	2	2	4	3	5
Padidan	0000	153	1000·9	...	1006·3	67·0	59·8	53·7	14·3	...	64	...	0·4	...	8	2	1	4	5	1	4	2	3
	0300	...	1002·5	...	1007·9	73·8	63·4	52·9	15·3	...	53	...	0·6	...	1	2	1	5	4	3	1	2	11
	1200	...	999·3	...	1004·5	96·6	68·2	44·9	10·8	...	18	...	1·4	...	4	1	0	1	5	1	4	9	5
SIND (Lower)																							
Umarkot	0000	55	1005·2	...	1007·2	66·8	65·8	63·5	21·8	...	97	...	0·0	...	1	1	0	0	14	8	2	2	2
	0300	...	1006·5	...	1008·6	76·4	71·0	68·0	23·4	...	75	...	0·0	...	4	1	1	1	4	15	2	1	1
	1200	...	1003·0	...	1004·9	98·0	84·0	79·1	23·4	...	54	...	0·0	...	1	2	1	0	1	10	9	6	0
Chhor	0000	19	1006·3	...	1007·0	66·3	62·9	60·3	19·0	...	81	...	0·5	...	1	0	0	0	0	13	0	1	15
	0300	...	1008·0	...	1008·7	75·2	68·6	64·5	19·7	...	66	...	0·5	...	3	2	3	0	1	15	2	0	4
	1200	...	1003·8	...	1004·4	96·8	77·7	67·3	23·7	...	40	...	0·9	...	0	1	1	0	1	10	10	6	1
Hyderabad	0000	96	1003·4	...	1006·7	70·3	63·4	57·7	16·8	...	66	...	0·2	...	4	1	0	0	2	14	1	1	7
	0300	...	1004·5	+1·4	1008·8	74·5	66·1	60·0	18·1	+0·6	62	+10	0·4	—0·8	4	1	0	0	2	15	2	1	5
	1200	...	1002·2	...	1005·6	95·4	69·5	49·0	12·5	...	22	...	0·7	...	0	5	3	0	0	18	0	3	1
Karachi (Air Port) † ...	0000	73	1005·6	...	1008·2	70·8	68·3	66·5	22·0	...	87	...	1·2	...	0	0	1	0	0	6	13	1	9
	0300	...	1007·1	...	1009·7	74·7	69·4	66·0	21·6	...	75	...	1·7	...	1	1	1	0	0	3	11	3	10
	1200	...	1004·2	...	1006·7	86·1	73·4	65·8	21·4	...	53	...	0·8	...	0	0	0	0	1	19	10	0	0
Karachi (Manora)	0000	13	1007·4	...	1007·9	74·7	71·9	70·5	25·6	...	86	...	1·3	...	0	0	0	0	0	6	14	0	10
	0300	...	1009·0	+0·3	1009·5	76·0	72·8	71·0	26·0	0·0	84	+1	2·0	—0·1	1	1	0	0	0	6	9	3	10
	1200	...	1006·3	...	1006·8	81·4	75·5	72·6	27·6	...	74	...	1·5	...	0	0	0	0	0	14	16	0	0
Badin	0000	31	1006·5	...	1007·5	69·4	64·5	60·8	18·5	...	75	...	0·0 (b)	...	3	0	0	0	1	0	17	3	5
	0300	...	1007·9	+0·1	1008·8	75·1	68·1	63·4	20·2	—2·1	68	+2	0·0	—1·2	3	1	0	1	0	1	19	3	2
	1200	...	1004·5	...	1005·5	95·2	69·0	48·4	12·4	...	22	...	0·0	...	2	1	1	0	4	0	18	4	0
HILL STATIONS excluding Kashmir and Baluchistan																							
Murree	0000	7,113	781·6	...	793·5	45·9	39·4	31·6	5·9	...	56	...	3·5	...	1	4	5	9	0	2	2	7	0
	0300	...	782·7	—1·4	794·5	51·7	42·4	31·3	5·9	—1·2	45	—4	4·0	+0·9	0	4	5	9	1	1	6	1	3
	1200	...	782·7	...	793·8	55·2	45·6	35·4	7·0	...	47	...	5·3	...	0	1	7	7	1	3	4	4	3
Cherat	0000	4,272	866·8	...	896·1	55·6	47·3	37·3	7·8	...	51	...	2·6	...	17	0	0	0	0	0	0	10	3
	0300	...	868·0	—0·8	897·2	57·9	48·6	38·2	7·9	—1·1	47	—7	2·7	0·0	13	2	0	1	2	0	0	10	2
	1200	...	866·8	...	895·6	66·4	53·2	39·7	8·5	...	39	...	4·7	...	4	1	0	3	8	5	0	8	1
Dresh	0000	4,806	852·7	...	898·9	51·7	43·4	31·1	6·3	...	47	...	3·2	...	0	0	1	2	0	0	0	0	27
	0300	...	853·4	—1·5	899·5	53·3	44·5	31·8	6·5	—2·3	45	—14	3·0	—0·1	0	1	1	0	0	0	0	0	28
	1200	...	850·2	...	895·0	66·5	49·4	25·9	5·2	...	24	...	4·4	...	1	4	2	1	1	7	7	0	7
Parachinar	0000	5,673	824·2	...	793·4	48·1	...	...	...	...	...	...	2·0	...	5	9	2	1	0	1	3	4	5
	0300	...	824·8	—1·1	794·4	53·4	...	...	...	...	...	...	3·2	+0·3	4	5	1	1	1	4	4	2	8
	1200	...	823·6	...	793·8	63·1	...	...	...	...	...	...	5·6	...	0	5	1	9	1	5	1	6	2
Wana*	0000	4,456																					
	0300																						
	1200																						

(*) Data rejected. (b) Mean of 29 days.

(†) Same observatory was previously designated as Karachi (Drigh Road).

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF APRIL 1951—*concld.*

Sub-Division and Station	Hours of observation.	Height of bar. cistern above mean sea level.	Mean Pressure: Station level reduced to standard temperature and gravity.	Mean Pressure: Departure from normal.	Mean Pressure: Reduced to standard temp. and M.S.L. or nearest G.P. Km. level.	Mean temperature of the air and humidity: Dry Bulb.	Wet Bulb.	Dew Point.	Vapour Pressure.	Departure from normal.	Relative humidity.	Departure from normal.	Total cloud amount: Mean amount	Departure from normal.	Wind direction, Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Feet	mbs.	mbs.	mbs.	°F	°F	°F	mbs.	mbs.	%	%	Oktas	Oktas									
AFGHANISTAN																							
Jalalabad	0300	1,950	934·1	...	1000·8	62·9	57·4	53·4	13·7	...	71	...	3·7		0	2	0	1	1	2	8	2	14
	1200	...	931·6	...	996·4	77·2	67·0	60·9	18·5	...	58	...	4·6	...	0	2	7	5	0	6	3	2	5
Kabul	0300	5,955	819·9	...	798·7	48·4	42·0	34·4	6·9	—0·5	58	—1	4·1	+1·1	2	1	0	2	7	8	4	4	2
	1200	...	818·4	...	798·0	60·9	47·8	33·5	6·8	...	37	...	5·4	...	8	8	2	3	2	1	3	3	0
Kandahar	0300	3,462	892·8	...	896·2	56·4	50·8	45·4	10·4	...	67	...	2·5	...	1	1	0	0	0	0	0	0	28
	1200	...	890·5	...	893·8	77·7	59·1	43·5	9·6	...	30	...	1·9	...	0	0	0	0	0	13	0	3	14
IRAN	0030	13																					
Jask	0300	10	1008·2	—	1008·6	73·0	66·5	61·3	19·3	—	69	—	0·5	—0·9	15	0	6	2	1	0	0	1	5
	1200	...	1007·2	...	1007·6	85·3	72·6	65·6	21·9	...	53	...	0·9 (c)	...	3	0	0	0	6	4	17	0	0
ARABIA																							
Muscat	0300	20	1009·5	...	1010·0	79·9	69·0	62·4	19·2	...	55	...	0·0	—1·3	1	0	1	0	0	3	10	6	9
	1200	...	1008·2	...	1008·7	82·9	72·8	67·2	23·2	...	60	...	0·0	—1·1	0	0	0	0	0	3	0	12	15
Kuwait†	0500	16	1012·3	...	1012·8	73·6	66·0	60·2	18·6	...	65	...	0·8	...	4	3	0	1	2	4	7	4	5
	1200	...	1010·0	...	1010·5	82·1	71·8	66·2	22·0	...	58	...	0·7	...	2	3	10	5	2	1	2	3	2

† Observations recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T.

(c) Mean of 28 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF APRIL 1951.

Sub-Division and Station	Maximum temperature of the air °F: Mean	Departure from normal	Highest: Height.	Date	Minimum temperature of the air °F: Mean	Departure from normal	Lowest	Date	Precipitation (inches): Total of the month	Departure from normal	Heaviest fall in 24 hrs.	Date	Days with 0·10 or more.	Departure from normal.	Wind velocity (Knots): Mean	Departure from normal.	Weather Number of days: Thunder heard	Hail	Visibility code figure 93 or less: Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (North)																					
Pabna	100·4	+3·6	109	17	73·0	+1·4	64	11	0·00	—2·55	0·00	0·00	0	—4·5	...	...	0	0	0	0	0
Rajshahi	...	...	...	...	...	...	...	...	0·00	—1·65	0·00	00·0	0	—2·6	...	...	...	...	...	...	...
Sirajganj	98·0	...	106	18	70·8	...	62	14	0·03	—3·24	0·03	19	0	—4·8	6·6	...	0	0	0	0	0
Bogra	98·7	+3·1	107	18	70·4	—1·1	61	13	0·18	—2·06	0·18	21	1	—2·5	3·8	+1·4	3	0	0	0	0
Dinajpur	97·4	+3·1	105	17, 19	68·3	—1·7	61	1, 2	1·01	—1·13	0·72	21	2	—1·0	4·1	+1·0	1	1	0	0	0
Rangpur	...	...	...	...	...	...	...	...	1·46	—1·62	1·32	21	2	—2·4	...	...	...	...	...	...	...
EAST PAKISTAN (East)																					
Cox's Bazar	89·3	+0·6	99	25	71·3	—2·1	61	22	6·51	+2·31	1·97	22	8	+3·8	3·4	—0·1	8	0	0	0	0
Chittagong	87·7	—1·1	95	12	71·8	—1·4	65	30	9·78	+3·85	3·28	20	11	+5·2	8·7	+2·1	10	0	0	0	0
Noakhali	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Brahmanbaria	92·9	—0·2	101	9	71·1	+0·9	64	21	6·22	—0·25	1·07	21	11	+4·1	4·4	...	6	0	0	0	0
Comilla	84·8	—7·5	98	9	74·2	+0·9	68	11	7·88	+2·03	2·16	25	9	+2·5	8·7	+4·4	0	0	0	0	0
Narayanganj	93·9	+1·5	102	18	73·0	—1·0	61	23	10·65	+5·25	3·60	29	10	+3·3	5·0	+0·9	0	0	0	0	0
Srimangal	90·2	—1·9	97	9·14	68·0	—1·3	61	11, 12, 13.	9·45	—0·26	1·61	27	12	+2·1	2·6	—1·0	13	0	0	0	0
Mymensingh	93·8	+2·7	104	18	68·8	—2·9	62	21	1·19	—4·32	0·51	28	3	—4·1	3·0	+0·6	3	0	0	0	1
EAST PAKISTAN (Deltaic)																					
Faridpur	91·2	—2·6	103	18	73·0	0·0	63	11	1·73	—2·94	0·80	30	3	—3·3	6·0	—0·2	4	0	0	0	0
Barisal	92·3	+0·3	97	10, 15	75·5	+0·4	67	23, 29, 30.	5·17	+0·94	1·60	29	5	—0·3	5·1	+2·0	10	0	1	0	0
Khulna	95·7	+1·5	101	9, 16, 17.	75·8	+0·5	67	2	2·40	—0·51	0·90	2	3	—0·2	4·5	+0·6	0	0	0	0	0
Jessore	99·5	+2·9	106	17, 18	73·2	—0·4	61	11	0·69	—2·84	0·53	30	2	—2·8	5·7	+2·9	0	0	0	0	0
Satkhira	96·7	—0·3	104	17	76·3	+0·7	67	11	1·08	—1·85	1·08	2	1	—3·0	4·6	+1·5	0	0	0	0	0

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF APRIL 1951—*contd.*

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (inches)						Wind velocity (Knots)		Weather Number of days.				
	Mean	Departure from normal	Highest.	Date.	Mean	Departure from normal.	Lowest.	Date.	Total of the month.	Departure from normal.	Heaviest fall in 24 hrs.	Date	Days with 0·10" or more.	Departure from normal	Mean	Departure from normal	Thunder heard.	Hail	Visibility Code figure 93 or less: Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
KASHMIR																					
Srinagar*																					
Gulmarg*...																					
Sonamarg*																					
Dras*																					
Skardu*																					
Gilgit*																					
Misgar (R)																					
Jammu*																					
Kargil*																					
Gurez*																					
NORTH PUNJAB																					
Lahore	89·0	—5·5	104	30	62·3	—0·9	56	2, 11	1·24	+0·67	0·83	3	2	+0·4	2·7	+0·7	7	2	0	0	1
Sialkot	87·7	—4·7	102	30	64·0	—0·7	54	4	0·63	—0·37	0·26	21	3	+0·9	2·5	+0·6	6	1	0	0	2
Jhelum	87·0	...	101	30	59·4	...	53	10, 21	1·01	...	0·41	3	3	...	2·1	...	5	0	0	0	5
Rawalpindi	82·2	—4·0	97	30	55·8	—3·5	49	4	3·43	+1·51	1·09	3	4	—0·1	2·4	0·0	4	0	0	0	0
Khushab	87·9	—5·0	103	30	62·2	—4·5	54	3	1·13	+0·22	0·58	18	3	+0·9	3·9	—0·7	0	0	0	0	0
Lyallpur	87·4	—5·5	103	30	62·1	—1·8	55	3, 10	1·93	+1·46	1·21	3	2	+0·7	1·9	—0·3	7	1	0	0	0
SOUTH PUNJAB																					
Montgomery	90·0	—5·7	105	29, 30	63·0	—3·6	56	9, 10	0·54	+0·20	0·35	2	2	—1·1	1·5	1·8	1	0	0	3	0
Multan	90·1	—5·2	106	29, 30	65·7	—1·8	55	8	0·88	+0·61	0·53	7	3	—2·2	3·1	+1·4	0	0	0	0	0
Fort Abbas	94·7	...	106	28, 29	...	...	...	..	0·40	...	0·26	2	2	...	6·6	...	0	0	0	0	0
Bahawalpur	90·9	—5·5	104	28, 30	64·9	—0·5	53	8	2·24	+2·06	1·25	7	3	+2·5	3·1	+0·5	0	0	0	0	1
Khanpur	94·3	—4·4	107	28	64·0	—0·7	47	2	0·77	+0·52	0·77	7	1	+0·5	4·4	+0·3	2	0	0	1	0
N.-W.F.P. (Upper)																					
Chakdara	78·1	...	92	28, 29	53·2	...	47	4, 8, 21	1·33	...	0·66	3	4	...	5·2	...	0	0	0	0	0
Peshawar	80·9	—4·3	94	28, 29	57·6	—2·9	51	9	1·30	—0·46	0·71	8	4	+0·2	3·5	+1·6	5	0	0	2	1
Landikotal	72·4	...	88	29	51·5	...	43	5	2·93	...	1·79	8	5	...	3·4	...	4	0	1	8	0
N.-W.F.P. (Lower)																					
Bannu	82·5	—5·9	99	30	60·1	—2·0	41	9	1·32	+0·34	0·73	8	4	+1·5	3·0	...	0	0	0	0	0
Miranshah	76·8	—1·5	91	30	54·4	—2·8	45	8, 9	3·28	+1·65	1·50	8	6	+2·1	...	...	0	0	0	0	0
D. I. Khan	86·0	—6·6	102	29	62·3	—2·9	55	3·8	1·07	+0·38	0·52	7	2	+0.3	2·2	+0·5	0	0	0	0	1

*Data not available. (R) Register not received.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF APRIL 1951—*concld.*

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (inches)						Wind velocity (knots.)		Weather Number of days				
	Mean.	Departure from normal.	Highest	Date.	Mean.	Departure from normal.	Lowest.	Date.	Total of the month	Departure from normal.	Heaviest fall in 24 hrs.	Date.	Days with 0·10" or more.	Departure from normal.	Mean.	Departure from normal.	Thunder heard	Hail	Visibility Code figure 93 or less: Fog	Visibility Code figure 93 or less: Haze	Visibility Code figure 93 or less: Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
BALUCHISTAN (North)																					
Fort Sandeman	76·0	—4·3	90	30	51·8	—2·7	43	6	1·15	+0·21	0·40	1	4	+0·9	3·2	+0·5	0	0	0	0	0
Hindubagh	70·1	...	84	30	46·3	...	33	4	0·83	...	0·20	7	4	...	7·1	...	3	0	0	0	3
Loralai	75·0	...	87	28, 30	49·3	...	39	3, 8	1·91	+0·96	0·91	7	4	+1·6	5·1	...	7	0	0	0	0
Harnai	...	...	...	...	...	...	...	...	2·15	+1·40	1·40	1	3	+1·1	...	...	...	...	...	...	...
Sibi	95·5	—2·2	109	28, 30	67·7	—2·4	51	7	0·20	+0·09	0·14	2	1	+0·6	3·1	—0·2	3	0	2	0	0
Quetta	69·7	...	83	29, 30	44·1	...	33	4, 7	0·89	...	0·55	7	5	...	4.0	+1·2		0	0	0	0
Quetta (Samungli)	71·4	...	85	29, 30	43·2	...	31	4	1·04	...	0·66	7	3	...	5·7	...	7	0	0	0	0
Chaman	74·1	—4·5	90	30	54·5	—1·5	41	7	1·29	+0·52	0·52	2	4	+2·6	6·2	+1·2	1	0	0	0	0
Khushki	83·3	...	97	28, 30	61·7	...	48	7	0·61	...	0·34	1	2	...	8·3 (b)	...	0	0	0	0	0
Kalat	66·9	—4·1	80	29, 30	41·8	—1·7	30	7	1·35	+0·75	0·72	1	4	+2·2	5·6	+1·0	0	0	0	0	0
Zalbandin	86·4	—2·8	101	30	55·3	—2·6	40	8	0·05	—0·25	0·05	6	0	—0·7	5·8	+1·5	0	0	0	0	2
Nokkundi	89·9	—0·3	104	30	61·5	—1·6	44	2	0·00	—0·35	0·00	...	0	—0·4	...	...	0	0	0	0	0
BALUCHISTAN (South)																					
Lasbela	97·1	—0·6	110	17	63·6	—1·2	54	8, 9	0·00	—0·54	0·00	...	0	—1·2	3·2	+0·7	1	0	0	0	4
Ormara	86·0	—3·6	96	18, 21	71·7	—1·4	63	8	0·00	—0·60	0·00	...	0	—0·8	10·1	+1·2	0	0	1	0	0
Pasni	87·8	—2·9	101	20	65·6	—2·2	57	7	0·00	—0·40	0·00	...	0	—0·5	9·2	+2·6	0	0	0	0	0
Turbat	99·9	...	111	30	68·3	...	55	7	0·00	...	0·00	...	0	...	4·1	...	0	0	0	1	0
Panjgur	86·5	—2·0	98	30	52·4	—6·8	41	4 days	0·00	—0·3	0·00	...	0	—0·8	5·3	+0·6	0	0	0	0	0
SIND (Upper)																					
Reti	98·5	...	111	29	64·8	...	50	4	0·09	...	0·00	...	0	...	5·5	...	2	0	0	0	0
Jacobabad	96·4	—3·2	111	29	69·6	—1·1	54	7	0·40	+0·23	0·13	2	4	+3·5	6·3	+1·6	3	0	0	0	0
Sukkur	95·0	—3·2	111	29	66·7	—1·7	55	3, 7	0·45	+0·35	0·45	7	1	+0·6	2·1	—1·3	0	0	0	0	0
Padidan	96·9	...	110	29	64·1	...	50	7	0·11	...	0·10	1	1	...	4·0	...	0	0	0	0	0
SIND (Lower)																					
Umarkot	101·0	...	110	15, 16	66·6	...	52	7, 10	0·00	...	0·00	...	0	...	5·9	...	0	0	0	0	0
Chhor	X	...	...	...	65·3	...	52	8, 9, 10.	0·00	...	0·00	...	0	...	5·8	...	0	0	0	1	0
Hyderabad	98·7	—3·1	109	15	69·3	—2·6	59	7	0·15	+0·08	0·15	2	1	+0·8	4·2	—1·4	0	0	0	0	0
Karachi (Air Port) † ...	91·1	...	105	15	68·5	...	58	7, 9	0·09	...	0·09	1	0	...	8·5	...	1	0	1	0	1
Karachi (Manora)	84·2	—1·2	95	20	73·2	—1·0	66	2	0·03	—0·12	0·03	2	0	—0·2	7·1	—1·3	0	0	0	3	0
Badin	99·0	—1·4	111	15, 16	68·5	—1·6	56	10	0·00	0·00	0·00	...	0	0·0	6·0	...	0	0	0	0	0
HILL STATIONS excluding Kashmir and Baluchistan.																					
Murree	58·7	—6·6	72	29, 30	44·0	—2·9	33	2, 8	4·94	+0·81	1·69	3	7	—0·1	4	...	9	0	5	0	0
Cherat	69·1	—3·0	86	29	55·4	—0·4	43	8, 9	4·38	+1·60	2·05	8	6	+1·3	6·8	—0·3	2	1	5	0	0
Drosh	69·8	+0·9	83	29	49·7	—1·3	42	9	0·60	—3·48	0·19	3	2	—6·1	3·4	+0·8	6	1	0	0	0
Parachinar	66·4	—2·3	81	28, 29, 30.	45·3	—1·6	37	9	3·54	—0·49	0·92	7	9	+0·3	4·1	+1·7	1	2	0	0	0
Wana (*)																					
AFGHANISTAN																					
Jalalabad	81·0	...	94	27	55·7	...	50	21	1·82	...	0·64	3, 8	3	...	2·3	...	0	0	0	0	0
Kabul	63·1	—2·2	80	29	43·0	+0·3	33	3	2·14	—1·16	0·45	2	10	+3·7	3·8	+1·8	4	5	0	0	0
Kandahar	80·1	...	95	30	47·2	...	36	7	0·77	...	0·48	1	2	...	1·4	...	0	0	0	0	0
IRAN																					
Jask	86·6	0·0	96	20, 29, 30.	70·7	—1·7	64	6 days	0·00	—0·24	0·00	...	0	—0·5	6·3	—0·9	0	0	0	0	2
ARABIA																					
Muscat	85·6	—2·7	97	30	76·7	—2·0	68	17	0·00	—0·34	0·00	...	0	—0·8	3·9	+0·5	0	0	0	0	0
Kuwait	83·6	...	100	25	*	...	...	...	0·00	...	0·00	...	0	...	4·8	...	0	0	0	0	0

* Data rejected.

† Some observatoy was previously designated as Karachi (Drigh Road).

‡ Observation recorded at 0500 hrs. ~~GMT~~ GMT instead of 0300 hrs. GMT.

X Data not available.

♭ Mean of 29 days.

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PAKISTAN WEATHER REVIEW, 1951

MONTHLY WEATHER REPORT

MAY

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Chief Features:—(1) Six western disturbances moved across West Pakistan during the month. Temperature rose all over West Pakistan considerably in the third week.

(2) Violent Nor'westers caused heavy damage in East Pakistan during the first fortnight.

West Pakistan —The first disturbance moved across north Baluchistan and plains of the Punjab during the first three days, causing local dust/thunderstorms in the north Punjab and the North West Frontier Province.

The second western disturbance moved northeastwards across Baluchistan and the South Punjab from 4th to 6th and causing local rain/thunderstorms in North Baluchistan and the Punjab. Another disturbance appeared over Baluchistan on the 6th and by the 9th moved away Northeastwards through the North Punjab. Fairly widespread rain/thunderstorms occurred in the North Punjab and North Baluchistan and local in the NorthWest Frontier Province on the 6th and 7th.

The fourth disturbance caused dust/thunderstorms in Baluchistan, lower Sind and the South Punjab on 11th and 12th and local to fairly widespread rain/thundershowers in the North-West Frontier Province, the North Punjab and North Baluchistan on the 13th and 14th.

The seasonal summer low appeared over the Punjab, Baluchistan and adjoining Iran during the third week when the day temperatures shot up all over West Pakistan. They were markedly to considerably above normal in West Pakistan on the 20th and 21st and in the North West Frontier Province and the Punjab on the 22nd and 23rd. Twentyfive persons, including three children were reported to have died in Sukkur, upper Sind, due to heat strokes.

The fifth disturbance which lay over Baluchistan on the 23rd, moved away eastnortheast-wards through the Punjab by the 26 th causing light rain over the hills of the North West Frontier Province and the north Punjab between the 24th and 27th.

The sixth disturbance moved across the extreme north of West Pakistan as a low pressure wave on the last two days of the month was very active and was responsible for marked spell of wet weather and thunderstorm activity in the North West Frontier Province and the north Punjab and scattered dust/thunderstorms in the south Punjab, Baluchistan and upper Sind on the two days.

The chief amounts of rainfall recorded during the month were:-Cherat and Peshawar 3/4 in each and Jhelum 1/2 in. on the 2nd; Sialkot 1/2 in. on the 3rd; Chaman 1 in., Loralai 3/4 in. and Hindubagh 1/2 in. on the 5th; Bannu 1 in. on the 6th Leiah and Fort Sandeman 3/4 in. each, Miranshah, Loralai, Quetta and Chaman 1/2 in. each on the 7th; Drosh 1-1/2 in., Chaman 1 in. Chakdara, Parachinar, Loralai and Harnai 3/4 in. each on the 8th ; Drosh and Cherat 1/2 in. each on the 9th Drosh 1 in., Chakdara, Cherat, Parachinar and Loralai 1/2 in. each on the 13th; Cherat 1 in. on the 27th ; Jhelum 2 in., Murree and Multan 1 in. each , Lyallpur and Khushab 3/4 in. each Lahore, Sialkot, Rawalpindi, Bahawalpur and Drosh 1/2 in. each on the 31st.

The mean rainfall in the month was in large excess over the North West Frontier Province and north Baluchistan and in moderate defect over the north Punjab. It was in large defect over the south Punjab, while no rain fell over upper Sind and south Baluchistan. Over the plains of West Pakistan as a whole, the rainfall was in moderate defect.

The mean maximum temperature was normal over Sind and north Baluchistan and below normal elsewhere while the mean minimum temperature was normal over the entire region. The mean relative humidity was in excess over the North-West Frontier Province, the north Punjab and Lower Sind, and normal elsewhere.

The mean cloudiness was above normal over the region except the Upper North West Frontier Province where the cloudiness was normal.

East Pakistan.—A marked incursion of moist air into East Pakistan in the first week led to fairly widespread rain/thundershowers during the first fortnight. During this period the norwesters were reported by the Press to be unprecedented in fury in the districts of Jessore and Faridpur. They left on some trial of death and distruction in their wake. Twentytwo persons were killed and about 500 injured on the 3rd, in the Narail sub-division of Jessore district. The death roll in Faridpur district on the 12th, was estimated to be 500. In addition great damage to property, livestock and cattle, was also reported from these places.

The chief amounts of rainfall recorded during the month were :—Jessore 3 in. and the 1st; Narayanganj 3 in on the 14th ; Srimangal 3 in. on the 16th and 23rd; Chittagong 4 in. on the 22nd; Sirajganj 3 in. on the 28th and Khulna 3 in. on the 30th

The mean rainfall in the month was in moderate defect over the region. The mean maximum and minimum temperatures and relative humidity were normal in the region except that the maximum temperature was above normal over the Northern sub-division. The mean cloudiness was normal.

Table I contains the Divisional and Sub-Divisional means of rainfall, temperature, humidity and cloud for the 5 chief Divisions and 12 Sub-Divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—MAY, 1951

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	Inches	Inches	Inches		°	°		%	
East Pakistan	6·15	9·63	—3·48	—36	+1·0	+1·1	+0·6	—1	—0·2
Mean of East Pakistan	6·15	9·63	—3·48	—36	+1·0	+1·1	+0·6	—1	—0·2
Punjab	1·01	0·56	+0·45	+80	—1·9	—0·1	+1·2	+6	+0·7
N.-W. F. P.	1·06	0·59	+0·47	+80	—3·1	+0·5	+1·8	+5	+0·4
Baluchistan	0·91	0·24	+0·67	+279	—1·2	−0·2 −2·0	+2·0 +1·5	+5	+0·6
Sind	0·02	0·15	—0·13	—87	—0·6	—0·1	+0·1	+3	+1·0
Mean of West Pakistan excluding Baluchistan	0·68	0·42	+0·26	+62	—1·6	0·0	+0·9	+5	+0·7
Sub-Division									
East Pakistan (North)	5·22	7·91	—2·69	—34	+2·8	+1·0	+1·7	—3	+0·3
East Pakistan (East)	7·74	12·18	—4·44	—36	+0·1	+1·1	+0·4	+1	0·0
East Pakistan (Deltaic)	5·05	8·12	—3·07	—38	+1·3	+1·3	+0·2	—1	—0·5
Kashmir*									
North Punjab	1·16	0·80	+0·36	+45	—2·3	0·0	+2·0	+8	+0·6
South Punjab	0·82	0·26	+0·56	+215	—1·4	—0·3	+0·2	+5	+0·7
N.-W. F.P. (Upper)	1·62	0·77	+0·85	+110	—3·7	—1·3	+2·6	+11	+0·4
N.-W. F P.(Lower)	0·79	0·59	+0·29	+58	—2·7	+1·3	+1·5	+7	+0·5
Baluchistan (North)	1·22	0·32	+0·90	+281	—0·6	—0·1	+2·1	+5	+0·3
Baluchistan (South)	0·20	0·04	+0·16	+400	—2·5	—0·5	+1·7	+5	+1·2
Sind (Upper)	0·00	0·14	—0·14	—100	—1·1	0·0	—3·9	—5	+1·7
Sind (Lower)	0.03	0·16	—0·13	—81	—0·3	—0·2	+2·8	+8	+0·5

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level.	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5(a)	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	Mb.	Mb.	%	%	Oktas										
EAST PAKISTAN (North)																							
Pabna	0000																						
	0300					86·4	79·4	76·0	30·7	—0·5	72	—7											
	1200																						
Sirajgonj	0000	49	1003·1	...	1004·8	76·3	75·2	74·5	29·2	...	95	...	5·0	...	1	0	0	12	2	0	0	0	16
	0300	...	1004·8	...	1006·5	82·3	77·9	75·7	30·2	...	81	...	5·4	...	0	0	4	12	3	1	0	0	11
	1200	...	1000·4	...	1002·0	88·1	79·5	75·5	30·5	...	68	...	3·7	...	0	0	4	7	1	0	0	0	19
Bogra	×0000	65	1003·2	...	1005·4	77·0	74·7	73·8	28·0	...	90	...	4·6	...	0	1	5	2	2	0	0	0	21
	0300	63	1004·6	+0·8	1006·8	82·3	80·3	74·8	34·1	+5·3	78	+1	5.3	+1·0	0	1	13	10	3	2	1	0	1
	1200	...	999·6	...	1001·7	89·1	78·1	73·0	27·7	...	61	...	3·0	...	0	0	17	9	0	1	1	0	3
Dinajpur	0000	123	1002·1	...	1006·3	76·2	73·4	72·1	26·4	...	86	...	3·5	...	2	5	9	2	0	0	0	1	12
	0300	...	1003·3	+1·7	1007·5	82·3	76·1	73·4	27·9	+0·3	75	—2	3·9	—0·5	9	9	15	0	0	0	0	0	7
	1200	...	999·2	...	1003·3	89·4	78·9	73·9	28·5	...	61	...	1·7	...	2	7	8	0	0	0	0	0	14
EAST PAKISTAN (East)																							
Cox's Bazar	0000	38	1006·3		1007·6	77·8	76·2	75·4	30·5	...	93	...	3·3	...	0	0	2	4	3	0	0	0	22
	0300	...	1007·7	+1·9	1009·0	86·0	79·5	76·5	31·5	+0·1	74	—4	2·6	—1·8	0	0	0	1	14	1	1	0	14
	1200	...	1004·5	+1·9	1005·9	86·1	79·3	79·4	30·7	...	72	—8	2·1	...	0	0	0	0	18	2	1	0	10
Chittagong	0000	87	...																				
	0300	...	1005·4	+1·2	1008·3	84·7	78·9	76·4	31·1	+0·7	77	0	5·1	+0·7	0	1	4	14	9	0	0	0	3
	1200	...	1001·7	...	1004·7	84·4	78·0	75·0	29·3	...	74	...	3·1	...	1	0	1	4	12	10	2	0	1
Comilla	0000	29	1005·5	...	1006·5	76·9	75·4	75·1	29·5	...	93	...	4·5	...	0	1	1	12	9	1	0	2	5
	0300	...	1007·1	+1·4	1008·1	83·3	79·7	78·0	32·8	+1·8	85	+10	4·7	+0·9	0	1	4	11	10	1	1	0	3
	1200	...	1003·4	...	1004·4	86·7	81·6	79·3	35·1	...	80	...	5·0	...	1	0	0	13	15	1	0	0	1
Narayanganj	0000	26	1004·7	...	1005·5	79·1	76·7	76·7	30·0	...	89	...	4·6	...	4	1	4	9	9	0	1	0	3
	0300	...	1006·3	+0·8	1007·0	85·4	78·7	76·1	30·3	—0·5	73	—4	3·8	—1·0	2	2	4	8	12	2	0	0	1
	1200	...	1002·0	...	1002·9	85·2	78·5	75·7	30·3	...	74	...	5·0	...	0	0	5	14	9	1	0	0	2
Brahmanbaria	0000	32	1005·7	...	1006·8	77·5	75·7	75·0	29·7	...	92	...	3·3	...	2	1	2	8	8	0	0	0	10
	0300	...	1006·9	...	1008·0	83·9	78·4	76·6	30·8	+1·9	77	+2	4·0	...	0	1	2	12	13	2	0	0	1
	1200	...	1003·0	...	1004·1	85·7	78·9	76·0	30·7	...	73	...	2·6	...	0	0	1	7	9	1	1	0	12
Srimangal	0000	69	1004·5	...	1006·9	74·0	73·0	72·2	27·3	...	95	...	5·8	...	1	0	4	2	7	0	1	0	16
	0300	...	1006·2	+1·5	1008·5	80·1	75·9	73·8	28·8	—0·1	82	+1	5·2	+1·0	1	5	6	1	8	0	1	0	9
	1200	...	1001·7	...	1004·0	84·2	78·2	75·6	30·0	...	76	...	4·6	...	3	1	5	3	10	0	2	0	7
Mymensingh	0000	62	1004·2	...	1006·5	76.8	74·6	73·7	28·7	...	90	...	4·8	...	0	0	12	1	1	0	0	0	17
	0300	...	1005·9	+1·1	1008·2	81·8	76·9	74·5	29·4	—0·8	79	0	5·4	+0·2	0	0	20	2	0	0	0	0	9
	1200	...	1001·4	...	1003·6	89·1	80·3	76·8	30·9	...	72	...	4·8	...	0	0	17	0	0	0	0	0	14
EAST PAKISTAN (Deltaic).																							
Faridpur	0000	46	1004·2	...	1005·8	77·6	76·0	74·0	30·5	...	93	...	4·3	...	3	7	17	0	0	0	0	0	4
	0300	...	1005·7	+1·4	1007·2	85·1	79·1	76·0	31·1	—0·2	75	—2	4·6	+0·5	2	7	22	0	0	0	0	0	0
	1200	...	1003·5	...	1002·0	87·2	79·0	75·0	30·2	...	69	...	5·2	...	0	10	20	0	0	0	0	0	1
Barisal	0000	11	1005·5	...	1005·9	79·3	77·4	76·7	30·8	...	91	...	3·0	...	1	1	1	6	10	1	0	1	10
	0300	...	1007·0	+1·2	1007·4	86·7	79·7	76·9	31·8	−0·5	72	−3	4·4	−0·1	0	1	1	9	11	3	0	1	5
	1200	...	1003·3	...	1003·7	85·9	79·2	76·5	31·5	...	74	...	5·0	...	0	1	2	10	14	2	0	0	2

(×) *Observations at 0000 hrs. recorded from a distance Site by P.B.O. staff.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level.	Mean temperature of the air humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5 (a)	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	Mb.	Mb.	%	%	Oktas.										
Khulna	0000	16	1005·2	...	1005·7	79·3	77·9	77·5	31·5	...	93	...	3·1	...	0	1	3	8	12	1	0	0	6
	0300	...	1006·7	+1·5	1007·3	86·7	80·9	77·9	33·4	+1·5	76	+1	2·8	—2·3	0	0	4	9	12	4	0	1	1
	1200	...	1003·0	...	1003·6	87·6	81·0	77·9	33·8	...	75	...	3·4	...	1	1	3	8	14	1	0	0	3
Jessore	0000	26	1004·4	...	1005·3	78·1	76·3	75·6	29·7	...	92	...	3·0	...	0	0	3	4	13	1	0	0	10
	0300	...	1005·8	+1·0	1006·7	86·4	79·8	76·9	31·5	—0·3	74	—3	2·8	—1·5	0	2	3	6	16	1	0	0	3
	1200	...	1002·5	...	1003·4	89·3	78·6	73·6	28·5	...	62	...	3·5	...	0	4	2	6	16	1	0	0	2
Satkhira	0000	16	1005·0	...	1005·6	79·9	77·6	76·5	31·1	...	91	...	4·5	...	1	1	0	9	4	3	0	1	12
	0300	...	1008·8	+4·0	1009·3	87·1	80·8	78·1	32·6	+0·4	75	+1	4·7	+0·7	0	3	1	11	3	8	0	2	3
	1200	...	1002·0	...	1002·5	90·7	80·4	76·5	30·8	...	66	...	5·0	...	0	1	0	19	4	2	0	3	2
KASHMIR																							
Srinagar*	0000	5,205																					
	0300																						
	1200																						
Gulmarg	0000	8,709																					
	0300																						
	1200																						
Dras*	0000	10,059																					
	0300																						
	1200																						
Leh*	0000	11,529																					
	0300																						
	1200																						
Skardu*	0000	7,505																					
	0300																						
	1200																						
Gilgit*	0000	4,890																					
	0300																						
	1200																						
Misgar	0000	10,190	700·6	...	704·3	42·3	35·1	25·2	4·7	...	51	...	3·0	...	1	0	4	0	0	0	1	0	25
	0300	...	701·0	...	704·7	41·7	35·3	26·0	4·8	...	55	...	3·8	...	0	0	1	0	0	0	1	0	29
	1200	...	698·5	...	702·1	59·1	42·6	20·6	4·1	...	24	...	3·2	...	0	0	25	0	0	0	4	0	2
Jammu*	0000																						
	0300																						
	1200																						
Kargil*	0000																						
	0300																						
	1200																						
NORTH PUNJAB																							
Lahore	0000	702	979·6	...	1003·8	74·3	66·4	60·2	18·5	...	63	...	2·6	...	4	5	1	1	0	0	1	2	17
	0300	...	981·1	+2·3	1004·9	84·1	69·6	60·8	18·2	+2·7	45	+9	2·1	+0·6	7	5	2	4	0	0	0	2	11
	1200	...	978·5	...	1001·6	98·2	72·4	55·8	15·5	...	24	~~2·7~~	2·7	...	4	2	1	1	3	2	9	7	2
Sialkot	0000	830	975·3	...	1003·6	76·1	64·7	56·2	15·7	...	51	...	3·0	...	3	5	2	2	0	1	1	9	8
	0300	...	977·1	+2·4	1005·2	84·0	68·6	58·9	16·9	+1·6	42	+4	3·0	+1·8	1	8	2	4	0	0	0	8	8
	1200	...	974·1	...	1001·5	96·2	71·9	56·3	15·7	...	26	...	3·1	...	2	2	1	4	0	1	6	10	5

* Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean Pressure			Mean temperature of the air and humidity							Total Cloud amount		Wind direction. Number of observations from :—							
			Stn. level reduced to standard temp. and gravity	Departure from normal	Reduced to standard temp. and M.S.L. or nearest GPKM level	Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	GMT	Ft	Mb.	Mb.	Mb.	°F.	°F	°F	Mb.	Mb.	%	%	Oktas									
Jhelum	0000	765	978·4	...	1004·8	72·2	64·7	59·7	17·5	...	65	...	3·2	...	3	0	0	2	2	0	1	3
	0300	...	979·3	...	1005·2	82·2	68·9	60·4	18·1	...	50	...	2·7	...	1	4	2	2	2	1	1	8
	1200	...	976·4	...	1001·6	95·4	71·1	54·5	15·0	...	26	...	3·0	...	2	1	2	4	1	1	4	7
Rawalpindi	0000	1676	948·9	...	1006·2	69·2	61·2	55·3	15·1	...	62	...	2·5	...	0	0	2	0	0	0	2	0
	0300	...	949·4	+1·9	1005·8	78·9	65·2	56·0	15·7	+1·5	46	+13	2·4	+0·7	1	0	3	2	0	0	3	0
	1200	...	947·9	...	1002·9	91·5	67·0	50·3	12·7	...	25	...	3·1	...	1	2	2	0	1	0	7	0
Khushab	0000	616	983·0	...	1004·2	76·7	66·2	58·1	17·3	...	55	...	1·1	...	2	8	4	7	2	2	1	0
	0300	...	983·9	+1·7	1004·8	85·7	68·9	57·9	16·6	+1·9	39	+5	1·2	—0·1	2	7	9	3	1	3	2	2
	1200	...	981·1	...	1001·4	98·8	74·1	59·3	17·5	...	27	...	2·1	...	2	1	8	7	5	2	1	5
Lyallpur	0000	605	982·1	...	1002·9	75·6	65·1	57·5	16·4	...	55	...	2·3 / 203	...	6	4	1	2	3	0	1	4
	0300	...	983·8	+1·7	1004·3	82·3	67·9	58·2	17·0	+2·6	44	+8	1·8	—0·1	3	4	2	2	2	0	5	2
	1200	...	981·0	...	1000·9	97·5	70·8	54·9	13·6	...	23	...	2·1	...	5	3	3	1	2	3	3	6
SOUTH PUNJAB																						
Montgomery	0000	558	984·0	...	1003·2	76·4	67·1	60·9	18·5	...	59	...	1·8	...	0	2	0	3	0	2	0	1
	0300	...	985·9	+2·4	1004·9	84·8	69·7	60·4	18·1	—3·0	44	—6	2·2	+1·3	1	7	0	7	2	4	0	2
	1200	...	983·1	...	1001·4	100·2	74·2	59·8	16·9	...	26	...	1·9	...	1	2	2	1	1	1	0	1
Multan																						
	0300	413	990·3	+1·8	1004·4	84·2	72·7	66·3	21·3	+1·2	55	+8	0·8	0·0	9	1	0	0	1	8	0	6
	1200	...	987·1	...	1000·7	102·9	79·6	68·0	23·9	...	33	...	2·4	...	5	1	0	0	4	11	0	1
Fort Abbas	0000	475	987·4	...	1003·8	75·6	66·9	60·4	18·6	...	62	...	0·3	...	0	14	0	4	0	9	0	4
	0300	...	988·5	...	1004·8	86·0	73·3	66·2	22·2	...	53	...	0·2	...	3	8	0	7	2	10	0	1
	1200	...	985·0	...	1000·6	104·2	*	*	*	*	*	...	1·5	...	2	2	1	1	0	10	3	12
Bahawalpur																						
	0300	384	991·5	+2·4	1004·5	81·8	72·5	66·1	23·1	+2·6	61	+15	2·0	+0·9	5	3	1	0	2	11	0	1
	1200	...	988·2	...	1000·8	103·5	79·7	67·6	23·8	...	32	...	1·6	...	3	2	0	0	1	6	3	0
Khanpur																						
	0300	297	994·7	+1·7	1004·8	84·7	69·7	59·4	18·0	—0·1	44	+1	1·1	+0·5	6	6	2	1	4	8	1	2
	1200	...	992·2	...	1001·8	105·0	73·3	53·1	12·6	...	18	...	1·5	...	3	1	0	0	0	9	13	5
N.-W. F. P. (UPPER)																						
Chakdara	0000	2225	930·7	...	1006·5	67·5	58·5	52·3	13·1	...	57	...	2·4	...	5	1	3	7	4	0	0	4
	0300	...	931·6	...	1006·5	73·1	61·5	53·2	12·9	...	47	...	1·8	...	1	1	6	7	4	3	1	1
	1200	...	929·5	...	1002·6	84·8	67·2	54·0	15·6	...	39	...	3·1	...	8	0	4	4	2	1	1	4
Peshawar	0000	1175	964·9	...	1005·4	70·3	62·7	56·8	16·0	...	63	...	3·3	...	0	0	0	1	12	5	1	2
	0300	...	966·5	+1·8	1006·2	80·5	67·2	58·4	16·7	+2·6	47	+11	2·9	+0·4	2	2	1	1	2	1	0	1
	1200	...	964·0	...	1003·0	90·1	68·7	53·2	14·3	...	29	...	4·9	...	5	10	3	4	2	0	1	2
Landikotal	0000	3503	889·2	...	894·1	64·5	58·8	54·8	14·4	...	71	...	2·7	...	0	1	0	3	0	0	0	4
	0300	...	890·5	...	895·3	70·7	63·1	55·3	16·2	...	65	...	2·5	...	0	3	0	3	0	1	0	10
	1200	...	888·9	...	893·7	81·7	68·1	59·7	17·3	...	49	...	4·0	...	1	5	0	12	0	2	0	10
N.-W. F. P. (LOWER)																						
Bannu	0000	1264	962·1	...	1005·4	75·1	64·3	55·6	15·7	...	52	...	1·6	...	8	4	1	0	1	0	4	2
	0300	...	963·0	...	1005·8	80·4	67·2	57·4	16·8	+2·4	48	+9	1·5	+0·5	5	2	0	1	0	0	5	3
	1200	...	961·0	...	1002·5	94·9	73·3	58·5	18·2	...	33	...	2·1	...	3	2	1	7	2	2	1	1

Sub-Division and Station	Wind direction. Number of observations from :— NW
1	23
Jhelum	20
	18
	9
Rawalpindi	27
	21
	18
Khushab	5
	2
	0
Lyallpur	10
	11
	5
SOUTH PUNJAB	
Montgomery	23
	8
	22
Multan	
	6
	9
Fort Abbas	0
	0
	0
Bahawalpur	
	8
	16
Khanpur	
	1
	0
N.-W. F. P. (UPPER)	
Chakdara	7
	7
	7
Peshawar	8
	21
	4
Landikotal	25
	14
	1
N.-W. F. P. (LOWER)	
Bannu	11
	15
	6

*Data rejected

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level.	Mean temperature of the air humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total cloud amount: Mean amount	Total cloud amount: Departure from normal	Wind direction, Number of observations from: N	NE	E	SE	S	SW	W	NW	calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	Mb.	Mb.	%	%	Oktas										
Miranshah*	0000	3026																					
	0300																						
	1200																						
D. I. Khan	0000	570	984·7	...	1004·2	77·7	67·0	60·7	17·8	...	56	...	2·1	...	5	7	1	0	1	4	5	6	2
	0300	...	984·8	+1·2	1004·3	83·0	70·4	63·6	19·7	+0·5	51	+4	1·4	+0·4	5	8	5	1	1	2	1	2	6
	1200	...	982·7	...	1001·5	98·6	75·7	62·7	19·9	...	32	...	1·8	...	1	3	7	5	2	3	(a) 1	2	6
BALUCHISTAN (North)																							
Fort Sandeman	0000																						
	0300	4,614	857·2	+0·8	896·0	69·9	56·0	44·1	9·6	+0·5	39	—15	0·4	—0·8	0	0	0	1	0	1	2	1	26
	1200	...	855·0	...	893·1	84·3	60·2	37·7	7·9	...	20	...	1·4	...	0	1	0	6	0	5	0	9	10
Hindubagh	0000	5,950	818·8	...	796·3	59·5	50·8	46·4	9·6	...	55	...	1·5	...	1	0	1	1	1	8	13	6	0
	0300	...	819·8	...	797·2	69·3	56·3	46·3	10·7	...	44	...	1·6	...	0	2	0	0	1	9	10	2	7
	1200	...	817·8	...	795·3	78·6	57·7	39·5	8·6	...	28	...	3·4	...	0	0	2	2	2	15	6	4	0
Loralai	0000	4,699	853·9	...	896·1	60·4	55·4	50·2	13·0	...	72	...	2·8	...	0	0	0	0	0	7	12	1	11
	0300	...	854·8	...	896·3	68·9	61·3	55·5	15·6	...	64	...	2·3	...	0	2	0	3	0	8	7	0	11
	1200	...	852·7	...	893·0	82·3	65·5	53·1	14·5	...	38	...	5·1	...	0	0	0	5	0	12	6	1	7
Sibi	0000	441	987·7	...	1002·4	83·9	68·5	57·9	16·8	...	42	...	1·1	...	0	1	2	0	1	2	1	5	19
	0300	...	989·3	+2·0	1004·1	90·2	71·8	59·8	18·0	+5·4	37	+9	2·0	+1·0	0	5	4	2	2	2	3	2	11
	1200	...	975·5	...	999·1	106·9	77·2	58·6	18·8	...	23	...	3·1	...	1	1	2	5	7	8	5	2	0
Quetta	0000																						
	0300	5,490	831·0	—0·5	795·9	67·1	56·3	48·4	11·4	+1·1	52	—2	1·3	+0·3	1	2	0	2	8	2	1	4	11
	1200	...	829·2	...	795·1	79·9	58·2	39·6	9·1	...	24	...	3·7	...	5	1	0	3	3	3	4	12	0
Quetta (Samungli)	0000	5,253	839·8	...	796·7	56·1	50·3	44·7	10·0	...	66	...	1·3	...	0	0	2	7	4	0	3	0	15
	0300	...	840·8	...	798·1	65·7	57·2	49·6	12·8	...	60	...	1·7	...	0	0	3	10	4	1	2	3	8
	1200	...	838·6	...	797·5	81·6	63·3	51·7	13·3	...	35	...	4·3	...	1	0	0	2	2	4	13	7	2
Chaman	0000	4,311	865·5	...	895·1	69·2	56·6	45·3	10·5	...	44	...	1·8	...	0	0	13	13	2	1	1	1	0
	0300	...	866·9	+0·5	896·7	76·4	62·5	52·0	13·2	+3·7	43	+10	1·9	+0·9	3	4	6	5	7	4	2	0	0
	1200	...	865·4	...	894·1	85·1	67·9	54·9	16·3	...	39	...	2·1	...	1	3	1	0	3	6	10	7	0
Nushki	0000	3,412	898·4	...	900·2	76·1	62·4	50·1	13·9	...	45	...	3·4	...	1	2	19	4	1	0	0	0	4
	0300	...	899·5	...	901·2	80·8	66·6	53·2	16·9	...	47	...	3·7	...	1	5	12	5	0	1	1	5	1
	1200	...	896·4	...	898·0	95·5	71·5	55·1	16·1	...	29	...	4·3	...	2	0	4	3	1	1	7	13	0
Kalat	0000	6,616	799·2	...	796·6	53·6	49·2	45·4	10·2	...	73	...	0·0	...	0	0	0	0	(a) (9)	9	0	0	21
	0300	...	800·4	+1·5	797·8	62·7	54·7	48·0	11·6	+1·0	61	+17	0·0	—0·8	3	0	0	4	17	2	0	0	5
	1200	...	799·0	...	796·5	75·7	62·5	54·5	14·1	...	46	...	0·3	...	10	1	0	0	3	4	2	11	0
Dalbandin	0000	2,785	912·9	...	894·9	71·3	57·1	44·1	10·0	...	39	...	1·5	...	4	5	1	0	0	0	1	2	18
	0300	...	914·1	+0·7	896·3	77·1	61·1	48·3	11·9	+1·5	37	+5	2·0	+1·1	1	5	0	1	1	1	1	0	21
	1200	...	911·2	...	894·0	96·2	68·0	48·0	11·8	...	21	...	4·5	...	2	2	1	6	0	10	4	4	2
Nokkundi	0000	2,229	929·5	...	1003·8	77·9	64·2	55·1	15·2	...	46	...	1·0	...	12	5	1	1	1	0	1	9	1
	0300	...	931·4	...	1005·0	83·1	69·5	61·0	19·1	+3·6	49	+9	1·6	+0·6	7	5	1	3	1	1	3	8	2
	1200	...	927·7	...	999·5	98·6	76·3	58·4	21·0	...	33	...	3·0	...	6	1	2	3	3	3	2	10	1

(a) Mean of 30 days.

data not available. rejected

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY, 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. and M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from:- N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	Mb.	Mb.	%	%		Oktas.									
BALUCHISTAN (South)																							
Lasbela (R)	0000	292																					
	0300																						
	1200																						
Ormara	0000	15	1004·5	...	1005·0	80·0	76·5	74·8	29·6	...	85	...	2·6	...	0	0	0	0	1	15	14	0	1
	0300	...	1006·3	...	1006·9	82·9	78·4	76·3	31·3	+0·7	81	—2	3·9	+1·9	0	0	1	0	0	14	14	0	2
	1200	...	1004·1	...	1004·5	88·7	77·6	71·9	27·2	...	59	...	2·1	...	0	0	0	0	0	16	15	0	0
Pasni	0000	10	1005·8	...	1006·2	75·2	73·9	73·2	27·5	...	73	...	3·6	...	0	2	1	1	0	3	14	1	9
	0300	...	1007·1	+1·9	1007·3	80·9	76·0	74·1	29·1	—0·2	81	0	2·8	+1·1	0	0	3	1	2	6	11	4	4
	1200	...	1004·4	...	1005·0	87·5	78·5	74·8	29·2	...	65	...	1·7	...	0	0	0	1	2	23	5	0	0
Turbat	0000	510	990·6	...	1007·7	80·3	72·4	67·4	23·2	...	61	...	2·2	...	0	0	1	0	0	3	2	0	25
	0300	...	992·0	...	1009·2	86·9	76·4	68·8	26·4	...	60	...	2·3	...	0	1	0	0	1	2	0	0	27
	1200	...	988·7	...	1004·3	105·4	81·1	66·3	25·7	...	34	...	2·9	...	0	0	0	0	0	11	16	1	3
Panjgur	0000	3,177	901·1	...	895·5	69·9	64·6	60·4	18·8	...	74	...	1·5	...	10	10	0	1	1	1	2	4	2
	0300	...	901·8	+0·8	896·4	74·6	68·2	63·8	20·1	+4·5	71	+17	1·3	+0·7	8	13	0	1	0	1	4	3	1
	1200	...	899·4	...	894·2	92·8	79·6	70·7	37·8	...	56	...	3·2	...	0	2	0	1	0	11	4	13	0
SIND (UPPER)																							
Rati	0000	280	994·4	...	1004·1	79·5	69·2	62·4	19·1	...	56	...	0·5	...	4	2	1	1	13	1	0	2	7
	0300	...	996·2	...	1005·8	84·9	70·7	80·5	19·6	...	47	...	1·4	...	6	4	3	1	10	2	0	1	4
	1200	...	992·4	...	1001·6	102·2	74·1	50·6	13·7	...	17	...	0·2	...	2	1	1	1	7	5	7	4	3
Jacobabad	0000	183	996·4	...	1002·8	82·7	65·9	52·8	14·2	...	37	...	2·2	...	1	2	5	12	2	1	0	5	3
	0300	...	998·3	+2·0	1004·6	88·4	69·6	56·0	15·6	—8·1	34	—13	2·2	+1·7	2	0	11	12	3	1	0	0	2
	1200	...	994·4	...	1000·5	106·7	72·7	46·7	11·6	...	14	...	2·3	...	0	0	0	11	13	2	1	3	1
Sukkur	0000	221																					
	0300	...	996·7	+1·6	1004·3	82·2	71·2	64·8	21·1	+0·2	57	+4	2·1	+1·7	1	2	5	8	2	6	1	0	6
	1200	...	993·3	...	1000·5	106·1	78·3	63·6	20·2	...	26	...	2·7	...	1	0	0	4	3	5	6	2	10
Padidan	0000	153	997·4	...	1002·6	80·1	70·0	63·5	20·5	...	59	...	1·3	...	0	1	1	10	7	0	1	1	10
	0300	...	999·0	...	1004·2	85·9	74·2	67·8	23·8	...	56	...	1·5	...	0	0	1	10	7	3	1	1	8
	1200	...	995·2	...	1000·7	107·1	80·2	65·9	40·3	...	50	...	2·4	...	1	0	1	4	8	3	4	3	7
SIND (LOWER)																							
Umarkot	0000	551	1002·5	...	1004·5	77·1	74·8	74·3	28·0	...	88	...	0·7	...	0	0	0	2	12	16	0	0	1
	0300	...	1003·9	...	1005·5	83·8	77·9	75·2	30·0	...	75	...	0·6	...	0	0	0	1	4	20	4	0	1
	1200	...	1000·8	...	1002·3	105·5	82·6	73·0	26·8	...	35	...	0·3	...	1	0	0	0	1	14	7	2	6
Chhor	0000	19	1003·4	...	1004·1	79·7	74·0	72·4	26·2	...	76	...	2·1	...	0	0	0	1	4	21	1	0	4
	0300	...	1005·0	...	1005·7	82·5	77·1	74·6	34·3	...	77	...	4·3	...	0	0	0	0	5	23	3	0	0
	1200	...	1001·1	...	1001·7	103·8	79·8	68·0	31·7	...	32	...	2·5	...	0	0	0	0	0	22	7	2	0
Hyderabad	0000	96	1001·1	...	1003·4	79·1	74·3	72·0	26·8	...	70	...	0·4	+0·7	0	0	0	0	0	31	0	0	0
	0300	...	1002·2	+1·6	1006·5	84·0	77·1	74·0	28·6	+5·1	71	+12	1·2	+0·7	1	0	0	0	0	29	1	0	0
	1200	...	999·2	...	1002·5	101·2	76·6	62·4	20·2	...	29	...	1·4	...	0	2	0	0	0	25	3	1	0
Karachi (Air Port)†	0000	73	1002·8	...	1005·3	79·3	77·1	76·2	30·8	...	91	...	2·4	...	0	0	0	0	0	13	15	1	2
	0300	...	1004·2	...	1006·8	82·5	78·1	76·3	31·3	...	81	...	4·5	...	0	0	0	0	0	11	19	0	1
	1200	...	1002·9	...	1004·4	88·9	79·2	74·9	30·1	...	65	...	2·1	...	0	0	0	0	1	16	14	0	0

(†) Same observatory was previously designated as "Karachi (Drigh Road)"

(R) Register not received

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF MAY 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean Pressure: Stn. level reduced to Standard temp. and gravity	Mean Pressure: Departure from normal	Mean Pressure: Reduced to Standard temp. and M.S.L. or nearest GPKM level.	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5(a)	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%	Oktas										
Karachi (Manora)	0000	13	1004·7	...	1005·2	79·9	78·3	77·7	32·5	...	93	...	2·5	...	0	0	0	0	0	11	15	0	5
	0300	...	1006·4	+1·4	1006·9	81·5	79·2	78·2	33·1	+2·1	89	+4	4·2	+1·6	0	0	0	0	0	11	16	0	4
	1200	...	1004·1	...	1004·5	85·8	81·4	79·4	35·3	...	82	...	2·4	...	0	0	0	0	0	15	16	0	0
Badine	0000	31	1004·0	...	1005·1	78·1	75·0	73·5	28·3	...	86	...	0·0	...	0	0	0	0	5	13	13	0	0
	0300	...	1005·1	+1·9	1005·9	83·3	77·9	75·6	29·7	+1·2	77	+7	0·4	—0·8	0	0	0	0	0	10	20	1	0
	1200	...	1002·3	...	1003·3	99·9	78·1	65·2	22·7	...	34	...	0·0	...	0	0	0	0	0	6	23	1	1
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.																							
Murree	0000	7,713	783·0	...	794·7	57·2	48·4	39·3	8·8	...	54	...	4·1	...	0	8	2	7	0	5	1	7	1
	0300	...	784·3	+0·9	795·9	63·5	51·3	39·5	8·5	0·0	43	+2	3·7	+1·7	1	7	8	3	0	1	3	4	4
	1200	...	783·9	...	795·3	66·6	53·9	43·0	9·6	...	45	...	4·4	...	0	7	8	4	0	3	5	2	2
Cherat	0000	4,272	866·4	...	895·1	67·9	55·9	45·0	10·4	...	45	...	2·5	...	8	0	0	2	4	0	0	6	1
	0300	...	867·7	+1·5	895·9	69·6	57·5	47·3	11·3	+1·1	47	+6	2·3	+0·6	8	0	0	1	6	0	0	14	2
	1200	...	866·6	...	894·7	78·1	61·5	48·8	11·5	...	36	...	3·5	...	7	2	1	2	6	1	1	10	1
Drosh	0000	4,806	853·0	...	898·5	60·3	51·6	42·4	9·6	...	53	...	3·6	...	0	0	2	2	0	1	0	0	26
	0300	...	853·6	+1·3	898·9	63·1	54·1	45·9	10·6	—0·5	54	—3	3·1	+1·1	0	0	1	1	0	0	0	0	29
	1200	...	850·9	...	895·1	75·2	56·6	37·8	8·1	...	27	...	4·4	...	1	2	2	2	0	4	4	0	16
Parachinar	0000	5,673	824·4	...	794·3	57·5	51·4	45·9	10·7	...	67	...	2·7	...	5	7	0	1	0	0	2	7	9
	0300	...	825·6	+1·3	795·8	64·7	55·4	48·1	11·6	+1·8	57	+11	2·3	+0·5	0	5	2	0	2	0	6	4	12
	1200	...	824·5	...	795·1	72·2	59·9	49·7	13·3	...	51	...	4·6	...	1	5	0	14	0	5	0	5	1
Wana																							
	0300	4,456	*	*	*	*	*	*	*	...	*	...	1·3	—0·2	0	0	0	0	0	0	1	0	30
	1200	...	*	...	*	*	*	*	*	...	*	...	2·9	...	0	1	1	(b)	1	0	4	1	20
AFGHANISTAN																							
~~Jalalabad~~ Jalalabad	0300	1,950	931·1	...	996·1	73·1	66·4	63·0	19·4	...	70	...	2·9	...	0	0	0	0	0	1	9	2	19
	1200	...	928·8	...	991·1	90·9	77·4	72·0	25·6	...	53	...	4·2	...	0	2	4	5	1	4	5	1	9
Kabul																							
	0300	5,955	819·9	...	799·1	60·1	49·9	40·8	8·6	—0·3	48	+1	2·4	+0·6	1	0	0	1	8	9	6	4	2
	1200	...	818·9	...	798·9	73·2	56·3	42·6	9·3	...	33	...	5·0	...	11	11	2	4	1	0	0	0	2
Kandhar																							
	0300	3,462	890·3	...	893·6	68·5	60·0	54·0	14·3	...	60	...	1·7	...	0	4	2	0	0	1	0	0	24
	1200	...	887·8	...	891·1	87·2	68·6	57·5	16·3	...	37	...	2·0	...	0	0	0	0	0	7	0	2	22
IRAN																							
Jask (R)	0300																						
	1200																						
ARABIA																							
Muscat	0300	15	1005·7	...	1006·1	86·5	78·4	74·3	30·2	...	69	...	1·8	+1·2	3	2	5	0	1	0	3	10	7
	1200	...	1004·8	...	1005·0	88·4	80·0	76·1	30·5	...	67	...	1·2	...	0	1	0	0	(a) 0	0	1	9	19
Kuwait†	0300	16	1008·4	...	1008·9	84·2	73·3	66·9	22·7	...	57	...	0·9	...	5	0	0	1	0	5	11	4	5
	1200	...	1006·2	...	1006·7	93·9	78·7	71·0	27·0	...	49	...	0·8	...	2	3	5	7	0	0	2	4	8

†Recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T. (R) Register not received. (a) Mean of 30 days.

(b) mean of 29 days. *Data rejected. ~~(g) mean of 24 days.~~

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MAY, 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hour	Date	Days with 0·01 or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (North)																					
Pabna	98·5	+3·7	108	13	76·3	+1·9	67	3	2·64	+4·71	1.30	30	4	—5·8	*	...	0	0	0	0	0
Rajshahi ...	...	...	...	...	...	...	...	...	3·60	—1·89	1·10	21	6	—1·4	...	...	0	0	0	0	0
Serajganj ...	92·2	...	100	12	74·6	...	65	3	11·06	+2·98	3·10	28	11	+0.5	4·3	...	9	0	0	0	0
Bogra	94·5	+2·1	105	12, 18, 20	75·3	+1·0	68	1, 21	5·02	—3·38	1·28	1	6	—3·6	3·5	+1·1	15	0	0	0	0
Dinajpur ...	94·3	+2·5	107	19	74·2	0	64	22	3·49	—3·85	0·76	14, 22	7	—1·7	4·0	+1·0	4	2	0	0	0
Rangpur ...	...	...	...	...	...	...	...	...	5·51	—5·32	1·35	28	10	—1·5	...	...	3	0	0	0	0
EAST PAKISTAN (East)																					
Cox's Bazar ...	91·0	+2·2	94	22	77·0	+1·1	72	15	2·76	—9·98	0·86	23	4	—6·5	3·3	—0·2	5	0	3	0	0
Chittagong ...	88·4	—0·5	90	7	77·5	+2·0	70	22	5·07	—5·35	3·58	22	5	—5·8	5·6	—0·8	6	0	0	0	0
Noakhali ...																					
Comilla ...	87·7	—3·4	92	6, 9	77·4	+2·5	70	3	7·71	—4·68	3·04	29	7	—4·8	6·9	+2·5	0	0	0	0	0
Narayangonj ...	92·3	+1·2	95	8 days	76·0	+0·2	66	3, 15	7·97	—1·67	2·65	14	9	—2·0	4·5	+0·6	0	0	0	0	0
Brahmanbaria ...	91·5	—0·5	96	8, 9	75·1	+2·3	66	5	7·60	—4·19	1·78	23	11	—0·7	4·0	...	5	0	0	0	0
Srimangal ...	90·6	—0·5	96	7, 8	72·5	+0·3	66	4	17·59	+1·80	3.20	16	17	+1·7	2·3	—1·0	15	0	0	0	0
Mymensingh ...	91·2	+1·9	95	4 days	73·5	—0·7	64	3	5·51	—6·95	1·65	28	8	—5·0	3·3	+1·0	8	0	0	0	0
EAST PAKISTAN (Deltaic)																					
Faridpur ...	88·6	—3·1	96	8	76·3	+1·4	70	1, 2, 3	3·90	—5·72	1·88	29	8	—3·0	7·4	+1·0	10	0	0	0	0
Barisal	92·3	+0·6	95	4 days	78·0	+1·1	70	6	4·53	—3·72	1·83	25	7	—2·6	4·7	+1·6	11	0	1	0	0
Khulna ...	94·9	+2·0	100	10	79·0	+2·0	71	1, 2	4·32	—3·43	2·85	30	4	—5·7	4·9	+0·7	3	0	0	0	0
Jessore	98·5	+4·6	107	10	*	*	*	*	6·71	—1·41	2·63	1	8	—1·1	5·7	+2·6	5	0	0	0	0
Satkhira... ...	97·6	+2·2	105	7	78·1	+0·7	68	25	5·77	—1·10	1·53	28	7	—1·2	4·5	+1·1	0	0	0	0	0
KASHMIR																					
Srinagar* ...																					
Gulmarg ...																					
Sonamarg* ...																					
Dras*																					
Leh*																					
Skardu* ...																					
Gilgit*																					
Misgar	62·9	...	79	27	X	...	...	...	0·92	...	0·35	14	4	...	4·6	...	0	0	0	0	0
Janamu* ...																					
Kargil ...																					
Gutez*																					
NORTH PUNJAB																					
Lahore	101·7	—2·0	116	23	73·7	+1·5	64	3	0·86	+0·27	0·38	31	3	+1·7	3·6	+1·6	7	0	0	0	1
Sialkot	99·8	—2·4	113	22, 23	74·3	0·0	63	3	1·22	+0·23	0·58	31	3	+1·0	3·1	+1·1	5	1	0	0	6
Jhelum	98·7	...	113	23	70·6	...	60	4	2·95	...	1·91	31	4	...	2·8	...	9	0	0	0	4
Rawalpindi ...	94·7	—3·0	111	23	67·5	—1·2	56	2, 4	1·74	+0·49	0·78	1	4	+1·5	2·6	+0·7	7	0	0	0	2
Khushab ...	101·4	—2·3	116	23	75·7	—0·6	65	2	1·08	+0·12	0·84	30	2	+0·4	4·5	—0·3	0	0	0	0	1
Lyallpur ...	100·8	—1·6	115	23, 24	74·1	+0·2	65	3, 9	0·88	+0·45	0·68	31	2	+0·8	3·5	+1·1	7	1	0	3	5
SOUTH PUNJAB																					
Montgomery ...	102·7	—2·7	116	22	75·1	—1·8	68	8, 9	0·33	—0·03	0·30	7	1	—0·1	1·9	—1·8	3	0	0	0	7
Multan	104·8	0·0	117	22	77·0	—0·4	69	2, 3	2·95	+2·62	0·89	31	2	+1·3	3·3	+1·5	0	0	0	0	7
Fort Abbas ...	107·5	...	118	23, 24	X	...	X	X	0·13	...	0·13	1	1	...	6·8	...	0	0	0	0	0
Bahawalpur ...	105·1	—1·1	115	23, 24	76·2	+0·3	66	9	0·00	—0·18	0·00	...	0	—0·5	3·3	+0·2	0	0	0	0	1
Khanpur ...	106·7	—1·9	115	22, 23	77·1	+0·8	64	3	0·00	—0·17	0·00	...	0	—0·4	5·0	+0·1	0	0	0	3	0

*Data not available.

Data rejected

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MAY, 1951.

SUB-STATION AND STATION	Maximum temperature of the air °F.				Minimum temperature of the air °F.				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
N.-W.F.P.(UPPER)																					
Chakdara ...	89·8	...	105	23	64·3	...	51	2	1·96	...	0·68	8	4	...	4·7	...	1	0	0	0	0
Peshawar ...	93·3	—3·7	109	24	69·1	—1·3	54	2	1·63	+0·86	0·82	2	3	+1·0	2·8	+0·5	10	1	0	0	0
Landikotal ...	85·3	...	101	22, 23	62·1	...	45	2	1·68	...	0·70	8	6	...	3·0	...	5	0	0	0	0
N.-W. F. P. (LOWER)																					
Bannu	97·4	—2·4	111	24, 27	72·8	+1·3	62	7	0.99	+038	0·72	6	3	+1·5	3.5	...	0	0	0	0	0
Miranshah																					
D. I. Khan ...	100·4	—3·1	113	24	76·8	+2·1	65	8	0·58	+0·19	0·25	31	3	+2·0	2·7	+0·9	0	0	0	0	0
BALUCHISTAN (NORTH)																					
Portsandeman ...	92·7	+2·2	101	23	61·6	—23	52	8	2·83	+1·92	1·62	28	5	+2·9	3·7	+0·9	0	0	0	0	0
Hindubagh ...	83·5	...	95	30	56·0	...	49	15	1·35	...	0·49	5	4	...	7·7	...	0	0	0	0	2
Loralai	86·3	...	95	4 days	58·1	...	45	8	3·42	+2·82	1·10	7	6	+4·7	3·6	...	8	0	0	0	0
Harnai	...	...	...	...	...	...	...	...	1·24	+0·74	0·73	8	3	+2·1	...	...	...	...	...	...	...
Sibi	108·4	—0·8	118	20	80·5	—0·8	70	8	0·13	—0·01	0·13	8	1	+0·5	4·5	+0·4	4	0	0	0	1
Quetta	83·3	...	95	30	52·8	...	41	15	1·01	...	0·43	7	3	...	4·7	+2·3	0	0	0	0	2
Quetta(Samungli)	84·6	...	95	30	53·1	...	41	15	1·29	...	0·54	8	3	...	5·7	...	5	0	0	0	0
Chaman ...	89·3	—1·1	101	30	66·2	+1·1	50	8	1·78	+1·65	0·91	5	3	+2·6	5·9	+0·9	0	0	0	0	0
Nushki	97·1	...	107	29, 30	73·3	...	50	5	0·23	...	0·20	5	1	...	6·1	...	3	0	0	0	0
Kalat	80·2	—2·8	90	23, 30	51·8	—0·2	43	15	0·32	+0·12	0·20	8	1	+0·3	6·2	+1·4	0	0	0	0	0
Dalbandin ...	99·4	—0·9	109	29, 30	67·7	+1·7	56	15	0·00	—0·07	0·00	...	0	—0·2	4·3	—0·1	5	0	0	0	3
Nokkundi ...	102·4	0·0	113	6, 30	74·5	0·0	62	14	0·07	+0·05	0·07	6	0	0·0	7·2	—0·8	0	0	0	0	1
BALUCHISTAN (SOUTH)																					
Lasbela(R) ...																					
Ormara ...	90·7	—2·0	97	23	79·6	+0·1	75	5	0·00	0·00	0·00	...	0	0·0	13·4	+2·8	0	0	0	0	2
Pasni	91·7	—2·6	100	15	74·8	+0·6	68	15	0·00	—0·01	0·00	...	0	0·0	8·6	+1·5	0	0	0	0	0
Turbat	108·5	...	117	22	78·9	...	68	5	0·00	...	0·00	...	0	~~+3~~	9.3	...	0	0	0	0	0
Panjgur ...	95·4	—2·5	106	30	65·9	—2·3	59	15, 16	0·60	+0·49	0·40	25	3	+2·7	5·0	+0·5	0	0	0	0	0
SIND (UPPER)																					
Rati	110·1	...	117	4 days	77·9	...	67	16	0·01	...	0·01	31	0	...	6·0	...	0	0	0	0	0
Jacobabad ...	108·8	—2·3	118	21	80·5	+0·7	73	17	0·00	—0·14	0·00	...	0	—0·4	7·1	+2·8	0	0	0	0	2
Sukkur	107·4	0·0	118	21	78·9	—0·7	72	12	0·00	—0·14	0·00	...	0	—0·2	1·3	—2·1	0	0	0	0	0
Padidan ...	108·3	...	116	22	78·2	...	69	15	0·000	...	0·00	...	0	...	4·3	...	1	0	0	0	0
SIND (LOWER)																					
Umarkot ...	108·1	...	114	17, 18	76·2	...	72	4	0·00	...	0·00	...	0	...	8·3	...	0	0	0	0	0
Chhor	‡	...	...	...	76·2	...	71	18	0·00	—0·10	0·00	...	0	...	7·9	...	0	0	0	1	3
Hyderabad ...	106·2	—0·8	112	18, 24	78·0	—0·2	72	12	0·09	...	0·09	11	0	—0·4	7·0	—0·7	1	0	0	0	0
Karachi(Air Port)†	93·7	...	100	18	78·5	...	74	3	0·00	...	0·00	...	0	...	11·5	...	0	0	0	0	0
Karachi(Manora)	87·7	—0·9	90	4 days	79·6	+0·6	77	2, 3	0·00	—0·00	0·00	...	0	—0·1	7·9	—2·2	0	0	0	0	0
Badin	104·7	+0·8	112	18	77·3	—1·0	72	8	0·00	—0·22	0·00	...	0	—0·2	8·0	...	0	0	0	0	0
HILL STATION EXCLUDING KASHMIR AND BALUCHISTAN.																					
Muree	72·0	—3·1	86	23	54·9	—0·7	40	2	3·52	+0·90	0·88	31	8	+3·2	6·1	+1·6	12	2	1	0	0
Cherat... ...	81·7	—3·6	99	23	63·5	—2·9	49	2	4·21	+2·56	0·97	27	8	+5·3	8·4	+1·5	8	1	1	0	0
Drosh	79·6	—1·9	96	23	57·7	—1·3	45	9	5·23	+3·41	1·45	8	2	3·2	+0·5	+0·1	7	1	0	0	0
Parachinar ...	77·9	—1·6	90	23	55·8	+0·2	46	8	4·27	+1·96	0·86	5	8	+1·3	3·3	+0·7	16	0	0	0	0
Wana	87·1	—1·8	98	21, 23 24	58·1	—1·9	51	8, 9	1·77	—0·95	0·56	6	4	+1·7	0·9	...	1	2	0	0	5

‡Data not available (R) Register not received. *Data rejected.

† Same observatory was previously designated as "Karachi (Drigh Road)"

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF MAY, 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Numbers of days			
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	~~Code~~ Hail	Visibility figure 93 or less: Fog	Visibility figure 93 or less: Haze
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
AFGHANISTAN																				
Jalalabad ...	93·2	...	106	22, 23	67·6	...	53	2	1·02	...	0·33	8,13	3	...	1·7	...	0	0	0	0
Kabul	76·8	—1·4	90	22	51·7	+0·6	37	3	1·69	+0·84	0·57	7	4	+1·5	3·0	+1·0	12	0	0	0
Kandahar ...	91·3	...	101	19, 20	58·2	...	49	3, 8	3·10	...	1·02	6	4	...	1·4	...	0	0	0	0
IRAN																				
Jask (R) ...																				
ARABIA																				
Muscat... ...	92·4	—3·9	104	22	83·6	—2·1	79	3	0·00	0·0	0·00	...	0	0	3·3	+0·1	0	0	0	0
Kuwait* ...	96·6	...	107	17	...	...	...	...	0·00	...	0·00	...	0	...	4·6	...	0	0	0	0

(*) Recorded at 0500 hrs. G. M. T. instead of 0300 hrs. G. M. T.
(R) Register not received.

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PAKISTAN WEATHER REVIEW 1951

MONTHLY WEATHER REPORT

JUNE

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Chief Features :—(1) Three heat waves were experienced over lower Sind and the Mekran coast.

(2) Two depressions formed in the Bay of Bengal causing monsoon activity in East Pakistan, throughout the month.

West Pakistan : Waves of low pressure moved eastwards sixtimes across the N. W. F. P. and Kashmir, during the month and were responsible for frequent spells of wet weather accompanied with thunderstorms over the hills and dust or thunderstorms in the plains of the Punjab, Baluchistan and Upper Sind.

A trough of low, appearing off the Kathiawar-Konkan coast on the 8th, concentrated into a depression of small extent by the 9th when it was centred at 0300 G.M.T., within one degree latitude 20°N. and longitude67°E. It remained practically stationary for the next two days and was responsible for heat wave in the coastal belt of Sind-Makran, where the rise in day temperatures was 5 to 10°F on the 11th and 12th. The depression weakened off Sind-Kathiawar coast and lay as a trough in the north Arabian Sea on the 13th.

Lower Sind and Mekran coast experienced two more heat waves on the 15th and 24th, as a result of marked incursion of the dry continental air into west Baluchistan and lower Sind raising the day temperatures by 5 to 10 °F. Karachi recorded 110 °F on the 15th and 111 °F on the 24th.

Some of the noteworthy amounts of rainfall recorded during the month were :—Rawalpindi 2″, Murree 1-1/2″ on the 1st; Jhelum 1-1/2″ on the 15th.

The mean rainfall during the month was in moderate defect over the south Punjab and in large defect over the north Punjab, the North-West Frontier Province and Baluchistan while no rain fell over Sind. Over the plains of the region as a whole, it was normal.

The mean maximum temperature was above normal over south Baluchistan and lower Sind, normal over the Punjab and upper Sind and below normal over the North-West Frontier Province and North Baluchistan. The mean minimum temperature was normal over the Punjab., Sind and South Baluchistan and was below normal over the North-West Frontier Province and North Baluchistan. The mean relative humidity was normal over the region except the south Punjab and upper Sind where it was in defect. Skies were clouded as usual over the Punjab and the upper North-West Frontier Province. Elsewhere, they were clouded less than usual.

East Pakistan : A depression which formed in the central Bay of Bengal with its central region within one degree latitude 14-1/2 °N and longitude 86 °E in the morning of the 3rd, moved in a northerly direction and was centred within one degree latitude 19 °N and longitude 87-1/2 °E on the morning of the 5th. It weakened and crossed the Indian coast on the night of the same day. It strengthened the south west monsoon in East Pakistan. The monsoon remained active till the end of the third weak.

A well marked trough of low which appeared in the Bay of Bengal off the Circars coast on the 24th, concentrated into a depression on the 25th when it was centred at 0300 GMT within half degree latitude 20-1/2 °N and longitude 87-1/2 °E. It moved inland into the Indian region by the evening of the same day. Under its influence monsoon remained active over East Pakistan till the end of the month.

Some of the noteworthy amounts of rainfall recorded during the month were :—Comilla 3″ on the 1st Sirajganj 3″ on the 5th ; Mymensing 3″ on the 7th ; Rangpur 3″ on the 9th and 11th, 4″ on the 12th and 5″ on the 13th ; Dinajpur 3″ on the 12th and 5″ on the 13th ; Chittagong 4″, Rangpur 3″ on the 14th ; Narayanganj 6″ and Faridpur 3″ on the 15th ; Chittagong 5″, Brahmanbaria 4″, Comilla and Srimangal 3″ each on the 16th, Narayanganj 3″ on the 21st. Mymensingh, Srimangal 3″ each on the 22nd ; Cox's Bazar 3″ on the 27th, Mymensingh 3″ on the 29th, Sirajganj, Bogra 4″ each on the 30th.

The mean rainfall during the month was in slight excess over the Northern sub-division, normal over the Eastern sub-division and in moderate defect over the Deltaic sub-division. Over the region as a whole, it was normal. The mean maximum and minimum temperatures and relative humidity were normal over the region. Skies over the Region were clouded as usual.

Table I contains the Divisional and Sub-Divisional means of rainfall, temperature, humidity and cloud for the 5 chief Divisions and 12 Sub-Divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—JUNE 1951.

Division.	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mbs.	%	
East Pakistan	14·63	15·49	—0·86	—6	—0·1	+0·8	+0·1	—1	+0·8
Mean of East Pakistan	14·63	15·49	—0·86	—6	—0·1	+0·8	+0·1	—1	+0·8
Punjab	0·61	1·24	—0·63	—51	—0·4	—1·4	—3·1	—6	—0·1
N.-W. F. P.	0·11	0·69	—0·58	—84	— 2·3	—2·4	—2·5	—5	—0·5
Baluchistan	0·02	0·27	—2·25	—93	—1·0	—2·9	—1·6	—4	—0·7
Sind	0·00	0·43	—0·43	—100	+1·2	—0·5	—1·2	—1	—0·6
Mean of West Pakistan excluding Baluchistan	0·32	0·87	—0·55	—64	—0·2	—1·3	—2·3	—4	—0·3
Sub-Division	in.	in.	In.		°	°	mbs.	%	
East Pakistan ... ...(North)	14·86	13·21	+1·65	+12	—0·3	+0·9	+0·7	+1	+0·9
East Pakistan ... ...(East)	18·24	19·12	—0·88	—5	—0·2	+0·9	+0·4	—1	+0·9
East Pakistan ... ...(Deltaic)	9·32	13·14	—3·82	—29	+0·3	+0·6	—0·7	—1	+0·8
Kashmir*									
North Punjab	0·81	1·79	—0·98	—55	—0·6	—1·5	—2·7	—5	0·0
South Punjab	0·28	0·60	—0·32	—53	—0·1	—1·5	—3·7	—8	—0·3
N.-W. F. P. ....(Upper)	0·06	0·31	—0·25	—81	—3·2	—2·1	—2·0	—3	—0·3
N.-W. F. P. ... ...(Lower)	0·13	0·81	—0·68	—84	—2·0	—2·5	—2·7	—5	—0·5
Baluchistan ... ...(North)	0·01	0·28	—0·27	—96	—3·6	—4·4	—2·2	—4	—0·3
Baluchistan ... ...(South)	0·05	0·24	—0·19	—79	+4·3	0·0	—0·2	—5	—1·7
Sind ... ...(Upper)	0·00	0·20	— 0·20	—100	—0·1	—1·5	—5·0	—7	—0·3
Sind ... ...(Lower)	0·00	0·59	—0·59	—100	+2·1	+0·2	+1·4	+3	—0·8

*Data incomplete.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%	Octas	Octas									
EAST PAKISTAN (North)																							
Pabna	0300					84·6	80·9	80·0	35·1	+1·8	85	+1											
Sirajaganj	0000	49	996·8		998·5	79·2	78·8	78·2	33·1		97		6·7		0	0	2	9	2	0	0	0	17
	0300		998·4		1000·1	82·5	80·3	78·7	35·3		89		6·7		0	0	2	10	4	0	1	0	13
	1200		994·8		996·8	84·3	81·0	79·1	34·0		85		6·5		0	0	2	6	2	0	0	0	20
Bogra	0000*	65	997·1		999·3	79·8	78·6	77·9	33·4		95		6·2		0	0	4	0	0	1	0	0	25
	0300	63	998·3	—1·1	1000·5	82·1	79·5	78·5	33·3	+1·0	89	+4	7·1	+1·2	0	0	10	12	1	4	1	0	2
	1200		995·0		997·0	85·1	80·6	78·8	33·5		82		5·2		0	0	12	6	1	2	1	0	8
Dinajpur	0000	123	996·1		1000·3	78·5	77·0	76·2	31·5		93		6.1		0	1	5	1	0	0	0	0	23
	0300		997·1	0·0	1001·3	81·4	78·1	76·2	30·6	—0·8	85	—1	6·5	+0·5	1	1	8	0	0	0	1	0	19
	1200		993·9		998·1	85·3	79·9	77·6	31·9		77		5·0		0	2	4	3	0	1	0	0	20
EAST PAKISTAN (East)																							
Cox's Bazar	0000	38	1000·7		1001·9	77·5	76·1	72·9	29·5		93		6·6		0	0	0	4	12	0	0	0	(b) 13
	0300		1002·1	+0·2	1003·4	81·7	76·3	77·5	28·7	—3·4	77	—8	6·4	+0·3	0	0	1	7	7	2	0	0	13
	1200		999·2		1000·5	81·9	78·5	77·3	31·7		85		6·5		0	0	0	7	14	2	0	0	7
Chittagong	0300	87	999·2	—1·0	1002·2	81·9	77·6	75·5	30·2	—1·3	80	—3	6·6	+0·6	0	0	6	16	7	1	0	0	0
	1200		996·5		999·5	82·3	78·0	76·0	30·2		80		6·5		0	0	1	6	14	8	1	0	0
Comilla	0000	29	999·8		1001·0	79·0	77·6	77·3	31·5		93		7·2		0	0	3	17	5	2	0	0	3
	0300		1001·0	—0·6	1002·0	82·0	79.1	77·6	32·5	+0·1	78	—4	7·1	+1·7	0	1	1	17	6	3	0	1	1
	1200		998·1		999·7	84·0	79·8	77·9	33·2		78		6·9		0	0	1	10	12	6	0	0	1
Narayanganj	0000	26	998·3		999·2	80·3	78·9	78·2	32·6		92		6·7		0	1	3	11	12	1	1	0	1
	0300		999·7	—1·4	1000·6	84·9	83·0	78·4	37·7	+4·6	82	—3	7·0	+0·5	0	0	4	8	15	1	1	1	0
	1200		997·0		997·9	85·1	81·0	78·3	34·3		82		6·5		0	0	2	6	15	3	0	0	4
Brahmanbaria	0000	32	999·7		1000·8	79·4	77·8	77·2	31·5		93		6·0		0	1	4	3	14	1	0	0	7
	0300		1000·6		1001·9	83·1	79·5	78·0	32·8	+2·2	85	+6	6·2		1	1	1	5	19	0	0	0	3
	1200		998·0		999·3	83·2	79·5	77·9	32·8		85		5·2		0	0	2	4	10	1	2	0	11
Srimangal	0000	69	998·8		1001·1	76·7	75·9	75·1	30·2		95		7·2		1	0	4	4	10	0	0	0	11
	0300		999·6	—0·7	1002·0	80·9	78·0	76·9	31·4	+0·1	88	+2	6·6	+1·3	0	2	8	11	7	0	1	0	1
	1200		996·6		999·0	82·1	78·8	77·5	31·7		86		6·9		1	1	5	2	15	0	4	0	2
Mymensingh	0000	62	998·3		1000·4	79·3	77·9	77·4	31·5		93		7·5		0	0	2	2	0	0	0	0	26
	0300		999·4	—0·9	1001·6	82·3	79·4	77·9	32·5	+0·7	88	+2	7·5	+0·8	0	0	12	4	0	0	0	0	14
	1200		996·5		998·7	84·6	82·9	78·2	38·5		82		6·1		0	0	4	0	1	0	0	0	25
EAST PAKISTAN (Deltaic)																							
Faridpur	0000	46	998·4		1000·0	79·6	78·5	78·0	33·4		96		6·4		0	6	14	1	0	0	0	0	9
	0300		999·5	—0·5	1001·4	83·9	80·1	78·2	33·2	—0·7	83	—1	7·1	+1·4	0	6	19	0	0	0	0	0	5
	1200		996·8		998·5	84·3	79·8	77·8	32·4		81		6·6		0	5	18	0	0	0	0	0	7
Barisal	0000	11	999·3		999·7	80·1	78·8	78·2	32·6		93		6·9		1	1	2	8	10	3	0	0	5
	0300'		1000·6	—0·7	1001·0	83·7	80·3	78·8	34·0	+0·3	85		7·3	+1·3	0	2	2	12	10	3	0	0	1
	1200		997·8		998·2	84·1	79·9	78·3	33·2		83		7·0		0	1	0	6	18	4	0	0	1
Khulna	0000	16	999·0		999·5	80·8	79·2	78·7	33·7		93		5·9		0	0	5	9	7	3	0	0	6
	0300		1000·2	—0·4	1008·8	85·4	81·1	79·3	33·5	0·0	81	+1	5·7	—0·9	0	0	3	9	9	4	0	0	5
	1200		997·7		998·3	85·9	81·3	79·6	34·7		82		5·5		0	1	0	12	12	2	0	0	3
Jessore	0000	26	997·7		998·6	79·8	78·4	77·8	32·6		93		6·2		0	1	0	11	10	1	0	0	7
	0300		999·1	—1·2	1000·0	86·2	80·9	78·7	33·1	—0·7	78	—5	6·2	+0·4	0	1	1	4	16	4	0	0	4
	1200		998·7		999·6	87·4	80·5	77·5	31·8		72		5·6		0	2	1	8	18	1	0	0	0
Satkhira	0000	16	998·7		999·3	80·9	79·4	78·1	33·7		93		6·8		0	0	1	16	0	5	1	0	7
	0300		1000·0	—0·3	1000·5	85·6	80·7	78·7	33·9	—2·6	80	—2	7·1	+1·8	0	3	1	11	0	9	0	0	6
	1200		997·4		999·8	87·1	80·8	78·0	32·6		73		7·0		0	2	2	21	0	3	0	0	2

* Observations at 0000 hrs. recorded from a distant site by P.B.O. staff.

(b) Mean of 29 days

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
KASHMIR	G.M.T.	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	4/10	OKTAS	Octas									
Srinagar ✗		5,205																					
Gulmarg ✗		8,709																					
Sonamarg ✗																							
Dras ✗		10,059																					
Leh ✗		11,529																					
Skardu ✗		7,505																					
Gilgit ✗		4,890																					
Misgar ✗	0000	10,190	697·7	...	701·4	45·3	37·7	28·1	5·3		52		2·9		0	0	2	0	0	0	4	0	24
	0300		699·0		702·6	46·7	39·0	29·4	5·6		53		3·2		0	0	2	0	0	0	4	0	24
	1200		696·4		699·9	62·6	44·7	24·4	4·4		23		3·5		1	0	25	0	0	0	1	0	3
NORTH PUNJAB																							
Lahore	0000	702	972·4		996·1	80·8	69·0	61·7	18·8		52		1·9		2	1	2	3	0	5	4	1	12
	0300		974·1	—0·4	997·5	88·4	71·9	62·5	19·3	—2·6	42	—5	1·4	—0·2	2	3	5	1	1	1	3	4	10
	1200		970·6		993·3	104·6	74·1	54·7	14·9		19		0·7		2	2	0	2	1	1	15	5	2
Sialkot	0000	830	968·2		996·2	81·9	66·7	56·2	15·4		42		1·9		4	6	3	1	1	0	1	5	9
	0300		970·2	—0·3	997·8	89·3	69·9	57·0	16·2	—5·4	34	—14	2·2	+0·8	0	12	3	4	0	0	1	3	7
	1200		966·0		992·7	103·9	72·3	50·5	12·8		17		1·5		3	4	1	1	1	5	2	5	8
Jhelum	0000	765	970·7		996·7	76·2	70·1	66·5	22·4		73		3·0		2	2	2	1	0	2	1	3	17
	0300		972·2		997·5	86·1	75·1	69·5	24·8		58		2·0		1	1	4	1	0	1	1	5	16
	1200		968·6		993·3	100·3	81·3	72·1	27·6		42		1·7		0	0	3	4	1	2	0	1	19
Rawalpindi	0000	1,676	941·4		997·9	74·3	63·6	56·1	15·7		55		1·4		0	1	0	0	0	0	0	1	28
	0300		942·9	—0·2	998·1	86·3	67·4	55·8	15·3	—2·9	35	—2	1·8	—0·1	0	5	0	1	0	0	2	0	22
	1200		940·2		993·9	99·7	70·8	53·0	13·9		22		1·4		1	1	1	1	0	0	6	2	18
Khushab	0000	616	975·4		996·2	81·9	69·5	62·0	19·0		51		1·5		2	3	5	3	6	3	3	0	5
	0300		976·4	—0·9	997·0	90·0	72·9	63·0	19·9	—0·9	41	—2	1·3	0·0	2	5	7	3	6	3	0	2	2
	1200		973·2		993·2	104·8	77·2	61·5	19·3		26		0·9		3	2	3	10	8	4	0	0	0
Lyallpur	0000	605	974·6		995·0	81·7	68·3	58·9	17·6		47		2·0		0	4	2	1	9	5	4	0	5
	0300		976·9	+0·1	997·2	86·9	71·6	62·7	19·6	—1·8	44	—2	1·2	—0·6	3	1	2	7	5	4	3	2	3
	1200		973·0		992·6	103·7	73·6	54·1	14·7		20		1·2		1	0	1	5	5	3	5	4	6
SOUTH PUNJAB																							
Montgomery	0000	558	976·8		995·7	82·1	70·7	63·9	20·5		54		3·3		0	0	0	3	0	8	0	1	18
	0300		978·5	—0·3	997·1	88·7	73·3	64·5	21·0	—5·8	45	—12	1·5	+0·5	0	1	0	8	0	8	1	3	9
	1200		975·2		993·2	104·6	75·1	57·4	16·3		22		0·5		1	3	1	1	1	4	1	0	18
Multan	0300	413	982·6	—0·6	996·4	89·4	74·4	66·3	22·2	—4·7	48	—8	0·3	—0·5	0	6	0	1	4	14	0	1	4
	1200		979·4		992·7	107·5	72·0	59·7	17·8		22		0·6		0	5	13	12	3	10	0	3	6
Fort Abbas	0000	475	980·6		996·7	84·4	×	×	×		×		0·5		1	2	0	11	1	14	0	1	0
	0300		981·9		997·7	92·3	×	×	×		×		0·4		0	1	1	3	1	17	4	3	5
	1200		977·7		993·1	105·8	×	×	×		×		1·7		1	3	0	2	0	17	2	5	0
Bahawalpur ✗	0300	384																					
	1200																						
Khanpur	0300	297	987·3	—0·6	997·2	90·0	76·9	64·0	25·7	—0·7	54	—3	0·2	—0·8	0	1	1	1	4	19	3	1	0
	1200		983·1		992·7	107·9	78·9	62·2	20·5		25		0·7		2	1	0	0	2	14	5	4	2
N.-W. F. P. (upper)																							
Chaddara	0000	2,197	923·9		998·1	73·4	60·9	50·8	13·2		47		0·9		12	3	2	3	5	1	1	3	0
	0300		925·2		998·6	80·7	64·2	52·2	13·8		39		0·5		2	2	0	0	6	9	6	0	5
	1200		921·9		992·9	96·3	70·9	55·7	15·5		26		1·3		1	6	5	0	3	3	4	1	7
Peshawar	0000	1,175	957·5		997·1	77·1	61·5	47·9	11·7		37		2·0		2	0	2	2	5	10	0	1	8
	0300		959·1	—0·3	998·0	88·0	68·4	54·5	14·9	—2·0	33	—3	1·4	—0·3	3	0	6	3	2	6	1	3	12
	1200		955·6		993·5	100·6	69·8	45·7	11·0		16		3·0		0	10	4	0	2	5	4	2	3
Landikotal	0000	3,503	883·3		888·1	72·7	63·1	56·6	15·9		58		1·8		1	0	0	3	0	0	0	7	19
	0300		884·5		889·2	82·7	68·8	59·0	18·4		48		1·4		0	1	0	2	0	0	0	13	14
	1200		882·3		886·9	91·8	75·6	67·4	23·6		47		2·1		1	0	0	11	0	9	0	6	3

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE 1951

Sub-Division and Station	Hours of Observation	Height bar. cistern above mean sea	Mean pressure: Stn. level reduced to stan. temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to Standard temp. M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
N.-W. F. P. (Lower)	GMT	Feet	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%	Oktas	Octas									
Bannu	0000 (e)	1,264	954·8		997·4	78·3	64·2	54·2	14·2		43		0·9		6	3	1	2	1	0	3	2	8
	0300(e)		955·6		997·6	86·9	69·7	58·3	17·0	—2·0	40	—2	0·8	—0·6	2	1	0	0	0	0	2	2	19
	1200(f)		953·1		993·7	102·3	71·9	50·3	12·9		19		2·0		1	1	3	8	3	0	0	2	7
Mirunshah	0000	3,026	899·4		889·5	80·1	64·3	53·0	14·2		39		0·4		0	3	9	13	1	4	0	0	0
	0300		899·5		889·6	83·1	65·8	54·0	14·6	—1·6	37	—9	0·6	—0·4	0	2	1	2	0	2	1	1	21
	1200		897·4		887·7	96·3	70·5	55·0	15·0		25		2·0		1	5	11	2	7	7	0	0	2
D. I. Khan	0000	570	976·2		995·4	81·0	69·3	61·9	19·2		53		0·8		4	9	4	4	1	0	1	0	7
	0300		976·9	—1·2	996·1	87·2	72·9	65·7	21·2	—4·3	48	—5	0·6	—0·5	5	10	2	1	2	1	3	1	5
	1200		974·7		993·2	105·8	77·6	62·0	19·5		26		0·6		0	9	3	8	3	3	1	0	2
BALUCHISTAN (North)																							
Fortsandeman	0300	4,614	852·9	+0·6	889·8	77·6	60·3	43·2	10·8	—2·0	43	—11	0·0	—0·7	1	1	1	0	0	0	0	0	27
	1200		848·7		886·2	95·0	64·5	29·5	8·3		15		2·0		2	1	0	3	0	4	1	0	19
Hindubagh	0000	5950	813·8		791·5	63·2	47·7	30·4	5·7		29		0·0		0	0	0	0	1	7	14	3	5
	0300		814·8		792·4	77·8	56·3	36·5	7·9		24		0·1		0	0	0	0	4	16	5	2	3
	1200		813·0		790·2	88·1	58·7	29·8	6·2		14		0·5		0	1	0	0	1	16	8	3	0
Loralai	0000	4,699	848·1		888·9	64·9	50·9	35·0	7·1		34		0·0		0	0	0	0	0	6	5	2	17
	0300		849·0		889·9	75·8	59·8	45·9	11·2		36		0·0		0	0	0	0	0	6	5	6	13
	1200		846·6		886·3	91·2	64·9	44·0	10·3		21		1·3		0	1	1	12	1	7	2	2	4
Sibi	0000	441	981·8		995·3	87·1	67·9	54·5	14·6		34		0·0		0	0	0	2	0	2	4	4	18
	0300		983·2	+1·0	996·6	692·6	72·3	59·1	17·9	—3·1	35	—5	0·1	—0·4	0	2	1	1	2	8	4	3	9
	1200		979·0		991·9	113·0	74·8	50·5	12·2		13		0·1		0	1	3	6	4	6	5	3	2
Quetta	0000	5,490																					
	0300		826·1	—1·7	791·4	70·6	55·7	43·7	10·2	—5·2	38	—16	0·5	0·0	1	2	1	1	2	1	1	1	20
	1200		824.0		790·7	87·8	58·5	31·6	6·4		15		0·2		5	1	0	0	0	1	8	15	0
Quetta (Samungli)	0000	5,253	834·6		791·6	54·8	47·6	39·4	8·9		60		0·1		1	0	5	8	3	0	4	2	7
	0300		835·4		793·9	69·4	56·2	46·0	10·9		44		0·5		0	0	3	1	0	0	2	4	20
	1200		833·3		793·1	88·4	67·4	53·0	15·4		33		0·4		2	0	0	0	0	0	8	19	1
Chaman	0000	4,311	860·3	~~889·9~~	~~891·9~~	~~70·5~~	~~53·7~~	53·7	35·1	8·0	28		0·0		0	0	15	10	3	1	0	0	1
	0300		862·0	+0·4	890·7	78·5	59·8	42·8	10·2	—0·6	30	+2	0·0	—0·4	2	0	6	5	2	10	3	1	1
	1200		859·9		887·7	93·4	71·4	56·2	16·9		32		0·0		1	0	0	2	0	2	16	9	0
Nushki	0000	3,412	893·4		895·1	76·6	62·9	51·6	14·0		43		0·6(b)		4	5	17	2	0	1	0	1	0
	0300		895·0		896·7	82·6	66·9	56·2	16·2		43		0·6(b)		2	1	8	6	0	0	2	10	1
	1200		891·5		893·2	100·1	77·5	65·9	23·0		35		0·0(b)		2	0	0	0	0	5	11	12	0
Kalat	0000	6,616	794·9		792·3	53·7	47·8	42·4	9·1		65		0·0		0	0	0	0	21	0	0	0	9
	0300		795·9	+0·1	793·4	68·0	57·3	49·3	12·2	+1·5	53	+13	0·0	—0·5	0	1	0	0	17	0	0	2	10
	1200		794·2		791·8	82·0	65·2	56·0	16·3		37		0·0		3	0	0	0	0	0	4	22	1
Daibandin	0000	2,785	907·6		889·8	73·3	55·1	36·0	7·3		26		0·2		3	1	0	2	0	2	6	6	10
	0300		909·0	+0·6	891·3	80·1	57·8	34·6	7·4	—3·5	21	—7	0·2	—0·4	1	2	0	1	0	3	5	2	16
	1200		906·1		889·1	101·9	69·2	44·8	11·2		16		0·3		3	6	0	2	0	2	3	14	0
Nokkundi	0000	2,229	924·9		998·5	79·6	61·4	46·0	11·2		33		0·5		13	1	0	0	0	0	0	15	1
	0300		926·5		999·4	86·1	68·7	57·7	16·7	—2·5	39	—1	0·7	+0·1	11	3	1	0	0	0	0	13	2
	1200		923·9		994·3	102·2	74·3	56·6	17·2		25		0·1		14	2	0	0	0	1	0	13	0
BALUCHISTAN (South)																							
Lasbela	0000	292	(*)		(*)	83·8	77·8	75·2	30·00		75		0·9	0·9	0	0	0	0	0	1	0	0	26
	0300		988·9(d)	—1·6	9991(d)	88·8	80·0	76·1	31·4	+0·7	66	—9	0·3	—2·8	0	0	0	3	1	0	0	1	25
	1200		985·9(c)		995·2(c)	104·5	83·9	74·5	30·2		40		0·5		1	1	0	9	7	4	1	1	6
Ormora	0000	15	997·4		997·9	81·9	80·0	79·3	34·1		91		2·2		0	0	4	0	0	11	12	0	3
	0300		998·8		999·3	85·3	81·6	80·6	34·8	+1·7	85	+1	2·9	—0·8	0	2	4	1	0	11	10	1	11
	1200		995·1		995·6	92·4	83·3	79·1	35·0		67		1·0		0	0	1	0	1	13	15	0	0
Pasni	0000	10	998·6		998·5	78·8	77·0	76·3	30·5		91		2·3		0	0	3	1	0	4	11	23	8
	0300		999·8	0·0	999·2	84·4	78·6	75·7	30·0	—3·0	75	—8	1·6	1·4	0	1	2	2	1	8	12	2	2
	1200		996·2		996·5	91·3	80·5	75·1	30·0		60		0·6		0	0	0	0	1	25	3	11	0

(b) Mean of 29 days. (c) Mean of 28 day. (d) Mean of 27 days. (e) Mean of 26 days. (f) Mean of 25 days. (*) Data not available.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. and M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressur	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
BALUCHISTAN (South)—contd.	GMT	Feet	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%	Oktas	Octas									
Turbat	0000	510	983·1		1000·4	84·3	76·4	71·0	27·0		68		0·1		0	3	2	0	0	2	1	0	22
	0300		984·7		1001·6	90·6	79·0	72·3	28·6		58		1·1		0	3	0	1	1	0	1	0	24
	1200		980·6		996·7	112·7	92·5	83·0	42·9		46		0·5		1	6	0	1	0	6	14	2	0
Panjgur	0000	3,177	896·2		890·8	76·5	68·0	61·3	19·9		64		1·4		4	4	0	1	1	4	10	5	2
	0300		896·4	+1·9	891·2	80·4	69·7	62·1	20·5	—2·5	58	—7	1·0	—0·8	4	5	0	1	1	6	6	7	1
	1200		894·3		889·1	99·6	72·5	47·4	16·3		26		2·4		1	4	0	1	0	5	2	18	0
SIND (Upper)																							
Reti	0000	280	987·6		997·1	85·3	74·2	68·8	23·9		58		0·0		0	1	0	3	17	4	1	1	3
	0300		988·9		998·3	89·2	76·8	70·8	26·1		55		0·0(b)		1	1	1	1	16	6	1	1	(b) 1
	1200		985·3		994·3	110·8	78·2	58·4	18·1		20		0·0		3	1	0	1	6	5	9	2	3
Jacobabad	0000	183	988·7		995·2	85·1	72·7	65·1	21·8		53		0·2		1	4	6	8	7	1	1	1	1
	0300		990·5	—0·5	996·7	90·3	76·1	68·0	24·3	—7·0	50	—13	0·2	—0·4	1	1	4	14	8	0	0	1	1
	1200		986·5		992·5	111·8	76·3	51·0	14·8		16		0·1		1	1	4	7	5	4	3	4	1
Sukkur	0000	221																					
	0300		989·1	—1·0	996·6	85·5	76·6	72·1	25·5	—3·0	65	—2	0·2	—0·3	0	1	3	8	7	7	1	0	3
	1200		985·5		992·6	109·8	81·4	67·8	23·3		27		0·1		1	1	1	2	4	6	5	3	7
Padidan	0000	153	990·7		995·9	82·6	74·6	70·1	26·0		67		0·3		0	0	0	18	7	0	0	0	5
	0300		991·6		996·8	87·6	77·3	72·2	27·4		60		0·8		0	0	0	19	9	0	0	0	2
	1200		988·0		992·9	110·7	75·8	51·8	14·7		16		0·8		2	1	0	9	7	1	0	1	9
SIND (Lower)																							
Umarkot	0000	55	996·3		997·9	81·3	78·8	77·8	32·5		89		0·7		0	0	1	0	12	14	3	0	0
	0300		997·1		999·1	87·1	81·5	79·3	34·1		78		1·0		0	0	0	0	4	23	3	0	0
	1200		992·9		994·7	106·6	85·6	78·1	35·9		45		0·5		0	0	0	0	2	16	9	2	1
Chhor	0000	19	996·8		997·5	81·6	78·3	76·8	31·5		85		2·8		0	0	0	0	11	17	2	0	0
	0300		998·0		998·7	85·7	80·3	78·2	32·9		78		2·8		0	0	0	0	9	19	2	0	0
	1200		993·7		994·3	104·4	84·2	75·2	30·8		41		1·0		0	0	0	0	3	19	7	1	0
Hyderabad	0000	96	993·4		996·7	81·9	78·4	75·9	31·6		85		1·5		0	0	0	0	0	30	0	0	0
	0300		995·0	—0·5	998·3	85·8	79·2	72·9	31·3	+3·2	74	+9	1·6	—0·4	0	0	0	0	0	28	2	0	0
	1200		991·7		994·9	102·5	79·3	67·7	28·6		34		0·9		1	1	2	0	0	26	0	0	0
Karachi (Air Port)†	0000	73	995·8		998·3	83·1	80·0	78·9	33·6		87		2·8		0	0	0	1	1	13	11	1	3
	0300		997·0		999·4	85·9	80·6	78·7	33·1		78		4·2		0	0	0	1	0	12	15	1	1
	1200		994·0		996·5	90·9	82·6	79·1	34·1		68		1·9		0	0	0	0	5	18	7	0	0
Karachi (Manora)	0000	13	997·6		998·0	83·8	80·0	78·2	33·2		83		4·1		0	0	0	0	1	12	15	0	2
	0300		998·9	—0·8	999·3	85·6	80·9	79·1	33·9	+0·4	82	—1	4·3	—0·2	0	0	0	0	1	12	15	0	2
	1200		996·2		996·6	88·6	82·7	80·4	34·0		73		3·2		0	0	0	0	0	15	15	0	0
Badin	0000	31	997·5		998·4	82·3	77·5	75·4	30·0		79		1·2		0	0	0	1	3	26	0	0	0
	0300		998·2	—0·6	999·1	86·4	79·7	76·7	31·6	+0·6	74	+1	1·4	—1·7	0	0	0	0	2	18	10	0	0
	1200		944·1		995·1	100·3	81·0	71·7	26·7		41		0·6		0	0	0	1	2	15	12	0	0
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN																							
Murree	0000	7,113	779·4		790·9	61·6	49·5	37·1	7·8		42		2·5		1	8	4	5	1	1	1	7	2
	0300		780·6	—0·9	791·9	67·9	53·0	39·5	8·4	—3·8	36	—16	2·5	+0·3	2	3	7	4	3	0	2	1	8
	1200		779·5		790·8	74·4	56·3	41·5	9·0		31		2·9		0	1	3	2	3	0	10	10	1
Chenar	0000	4,272	861·3		889·3	75·1	57·4	41·1	9·0		30		1·8		10	0	0	1	6	2	0	10	1
	0300		862·5	—0·2	890·2	77·4	59·2	43·5	9·8	—4·1	30	—15	1·5	+0·1	11	0	0	1	5	4	0	8	1
	1200		861·1		888·4	89·1	64·3	45·8	10·5		22		2·5		2	4	0	2	8	5	11	8	0

(b) Mean of 29 days.

(†) Same observatory was previously designated as Karachi (Drigh Road).

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JUNE 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & m.s.l. or nearest GPKM level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Feet	Mbs.	Mbs.	Mbs.	°F	°F	°F	Mbs.	Mbs.	%	%	OKTAS	OCTAS									
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN—																							
Drosh	0000	4,806	847·5		892·1	67·7	53·1	38·0	8·0		35		0·7		0	2	2	3	0	0	1	0	22
	0300		848·3	—0·3	892·5	72·3	56·5	41·9	9·2	—4·2	34	—16	1·1	+0·1	0	2	3	1	0	0	0	0	24
	1200		844·3		887·2	86·3	59·6	33·2	6·7		15		2·8		1	1	1	0	0	11	11	0	5
Parachinar	0000	5,673	819·5		789·9	63·7	51·1	39·6	8·3		42		1·2		19	1	0	0	0	1	3	3	3
	0300		820·6	—0·9	791·4	72·1	55·3	40·6	8·9	—3·1	33	—10	1·1	—0·3	2	2	0	4	1	2	0	4	15
	1200		819·1		790·5	82·7	58·1	37·3	7·7		21		3·6		0	4	1	15	1	7	0	1	1
Wana	0300	4,456	(*)		(*)	75·3	60·7	49·9	12·2	—1·0	41	—2	0·3	—0·7	0	1	0	0	0	0	0	1	28
	1200		(*)		(*)	90·9	65·2	46.4	10·8		22		1·1		0	2	6	1	0	0	0	5	16
AFGHANISTAN																							
Jalalabad	0300	1,950	923·7		987·3	79·6	70·6	65·3	21·9		63		0·9		0	0	0	0	0	1	6	1	22
	1200		920·7		981·2	100·1	81·7	74·9	29·4		44		2·1		0	0	12	1	0	2	6	0	9
Kabul	0300	5,955	816·3		796·1	65·4	50·7	36·8	7·3	—2·0	35	—3	0·0	—0·6	1	1	1	1	3	5	9	7	2
	1200		814·2		794·7	82·4	57·6	36·7	7·3		19		2·5		11	10	3	3	0	0	0	1	2
Kandahar	0300	3,462	883·9		887·3	69·9	59·4	51·2	13·0		53		0·1		0	0	0	0	0	0	0	0	30
	1200		881·5		884·8	94·4	71·1	57·7	16·5		29		0·1		0	0	0	0	0	8	0	4	18
IRAN																							
Jask	0300	13	998·1		998·4	86·3	79·2	76·0	30·9		73		0·6	—0·2	2	1	13	1	0	0	9	2	2
	1200		996·9		997.3	96·1	85·5	81·6	37·2		65		0·2		0	0	0	0	2	13	15	0	0
ARABIA																							
Muscat	0300	20	998·1		998·6	90·8	79·7	74·3	29·6		60		(b) 0·9	—0·5	5	2	2	5	0	1	3	5	7
	1200		996·7		997·2	93·3	83·6	79·9	38·1		66		0·5		3	2	1	11	2	0	3	5	3
Kuwait†	0300	16	1001·1		1001·6	89·5	79·1	73·8	29·3		61		0·0		5	0	0	0	0	1	7	12	5
	1200		999·3		999·8	97·7	84·6	79·2	34·1		56		0·0		5	2	1	2	0	0	3	15	2

(*) Data rejected (b) Mean of 29 days. † Observations recorded at 0600 hours G. M. T. instead of 0300 hours G. M. T.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JUNE 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less: Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (North)																					
Patna	91·5	—0·1	99	1	78·1	+2·5	74	23	11·30	+0·03	2·80	5	11	—3·5	..	...	0	0	0	0	0
Rajshahi ...									6.30	—4·92	2·10	8	6	—7·2	..	...					
Sirajgonj ...	88·1		95	4	77·8		69	21	17·57	+5·25	4·02	30	13	—1·3	3·5		0	0	0	0	0
Bogra	89·3	—0·5	97	4	78·0	+ 0·8	71	21	13·25	+0·21	3·77	30	13	—1·5	2·7	+0·6	9	0	0	0	0
Dinajpur ...	89·2	—0·3	96	1, 2, 4	76·7	—0·6	71	3	15·08	+1·44	4·68	13	13	—1·1	2·9	+0·3	9	0	0	0	0
Rangpur ...									25·65	+7·87	4·95	13	17	+1·3			1	0	0	0	0
EAST PAKISTAN (East)																					
Cox's Bazar ...	87·9	+1·6	105	3	75·8	—0·6	70	20	24·85	—6·29	2·89	27	25	+5·9	4·3	+0·4	4	0	0	0	0
Chittagong ...	68·5	—0·4	93	4	77·2	+0·4	74	15	17·36	—3·63	4·54	16	16	— 0·7	5·5	—1·5	1	0	0	0	0
Noakhali ...																					
Comilla	85·6	—2·7	91	3, 14	78·6	+1·8	75	1, 16	22·77	+4·49	3·46	16	18	+0·9	7·4	+2·3	0	0	0	0	0
Narayanganj ...	90·1	+0·9	96	1, 4	78·6	+0·5	67	21	19·05	+6·66	5·86	15	14	—0·5	4·0	—0·3	0	0	0	0	0
B. Baria ...	89·1	—1·1	96	4	77·1	+2·5	69	21	12·21	—2·34	4·48	16	15	—1·0	4·0		2	0	0	0	0
Srimangal ...	89·3	—0·6	94	5 days	76·3	+0·8	72	1	16·80	—2·06	2·71	22	19	—1·1	3·5	+0·3	7	0	0	0	0
Mymensingh ...	88·5	+0·7	97	2	77·8	+0·9	74	7, 16, 18	14·07	—3·53	2·89	7	16	—1·8	3·0	+0·8	1	0	0	0	0
EAST PAKISTAN (Deltaic)																					
Faridpur ...	86·3	—2·9	92	18	77·9	+0·5	72	16	12·21	—0·58	2·62	15	15	—0·2	6·6	+0·1	7	0	0	0	0
Barisal	89·2	+0·4	94	1, 2, 12	79·1	+0·8	73	21	17·83	+1·78	3·86	27	18	+1·3	3·8	+0·8	3	0	0	0	0
Khulna	91·1	+0·5	97	19	79·1	+0·2	72	21	7·50	—4·96	1·48	·6	10	—4·7	3·5	—0·4	0	0	0	0	0
Jessore	93·7	+3·0	100	19					4·86	—7·36	1·29	18	10	—4·0	3·8	+0·8	5	0	0	0	0
Satkhira	92·5	+0·7	99	25	79·6	+0·8	75	18	4·20	—8·00	1·31	30	7	—6·7	3·2	+0·3	1	0	0	.	0
KASHMIR																					
Srinagar † ...																					
Gulmarg † ...																					
Sonamarg † ...																					
Dras †																					
Leh †																					
Sharda † ...																					
Gilgit †																					
Misgar	64·6		83	29, 30		...	...	...	0·62		0·45	14	2		6·0		0	0	0	0	0
Kargil †																					
Gurez †																					
NORTH PUNJAB																					
Lahore	106·0	+0·1	115	28	79·5	+0.5	66	1, 2	0·45	—1·19	0·35	1	1	—1·8	3·9	+1·7	4	0	0	0	0
Sialkot	104·8	—0·2	113	28, 30	80·3	0·0	68	1, 15	0·35	—2·04	0·35	15	1	—2·5	2·9	+0·8	4	0	0	0	2
Jhelum	102·2	...	113	30	74·7	...	64	1, 18	2·58	...	1·68	15	2		2·3	...	10	0	0	0	5
Rawalpindi ...	101·7	—1·8	114	30	73·0	—2·9	60	1	2·24	—0·07	2·14	1	1	—2·3	2·6	+0·5	7	0	0	0	0
Khushab ...	106·5	—0·1	117	28	79·5	—2·8	61	15	0·39	—1·02	0·13	1	2	—0·3	5·3	+0·3	3	0	0	0	1
Lyallpur	104·9	—1·1	113	28, 29	80·2	—1·5	65	1	0·64	—0·58	0·64	1	1	—1·1	3·2	+0·4	6	0	0	1	2
SOUTH PUNJAB																					
Montgomery ...	106·3	—1·5	114	29, 30	80·7	—2·6	68	2	0·59	—0·39	0·42	1	2	+0·4	2·5	—2·3	1	0	0	0	1
Multan	107·9	+1·3	117	28	84·2	—0·6	75	1, 2	0·00	—0·55	0·00	...	0	—1·0	3·5	+1·2	0	0	0	0	0
Fort Abbas ...	109·5	...	116	28, 29	...	...	...	...	0·09	...	0·09	25	0	...	7·5	...	0	0	0	0	0
Bahawalpur † ...																					
Khanpur ...	109·6	—0·2	116	28	81·8	—1·2	72	2	0·25	—0·01	0·25	20	1	+0·4	5·3	—1·8	1	0	0	1	0

(†) Data not available. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JUNE 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 39 or less		
																			Fog	Haze	Dust-Storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
N.-W. F. P. (Upper)																					
Chahdara ...	98·7		109	28, 30	69·8	...	61	1	0·13	...	0·13	18	1	...	5·3	...	0	0	0	0	0
Peshawar ...	101·8	—3·2	113	28, 30	75·1	—2·1	64	1, 18	0·06	—0·25	0·03	11	0	—0·9	3·9	+1·7	6	0	0	0	2
Landikotal ...	94·2	...	107	29, 30	70·4	...	57	1	0·04	...	0·04	11	0	...	4·2	...	5	0	0	0	1
N.-W. F. P. (Lower)																					
Bannu (c) ...	103·5	—2·6	112	28, 30	76·9	—2·8	68	1, 2	0·00	—0·91	0·00	...	0	—1·5	3·2	...	0	0	0	0	1
Miranshah ...	97·2	—1·7	109	29	74·8	—2·3	68	2, 16	0·08	0·83	0·08	24	0	—1·6	(*)	...	0	0	0	0	4
D. I. Khan ...	106·1	—1·7	115	28	✱	✱	✱	✱	0·30	—0·31	0·28	16	1	—0·3	3·2	+1·4	0	0	0	0	0
BALUCHISTAN (North)																					
Fort Sandeman ...	97·1	—2·1	107	30	70·6	—2·3	62	1,2	0·00	—0·64	0·00		0	—1·3	3·3	+0·5	0	0	0	0	0
Hindubagh ...	90·6		100	29,30	60·9		53	20	0·00		0·00		0		6·4		0	0	0	0	0
Loralai	92·8		105	30	62·4		53	18	0·05	—0·30	0·05	1	0	—0·1	3·8		0	0	0	0	0
Harnai									0·00	—0·75	0·00		0	—1·5	...	...	...	...	...	...	...
Sibi	113·5	+0·8	120	28	85·1	—2·4	77	18	0·00	—0·30	0·00		0	—0·5	4·2	—0·7	0	0	0	0	1
Quetta	88·4		97	29	51·3		45	19	0·00		0·00		0		3·5	+1·3	0	0	0	0	0
Quetta (Sumangali)	90·0		99	29	51·3		41	18	0·00		0·00		0		5·1		0	0	0	0	0
Chaman	94·1	—4·7	104	29	67·8	—4·4	62	14,15	0·00	—0·02	0·00		0	0·0	5·4	+0·3	0	0	0		
Nushki	101·4		110	29	74·2		68	14	0·00		0.00		0		7·6		0	0	0	0	4
Kalat	84·4	—5·9	93	29	51·8	—5·9	43	25	0·00	—0·19	0·00		0	—0·4	7·1	+2·7	0	0	0	0	0
Dalbandin ...	102·8	—4·5	110	29	68·3	—4·7	62	3,14	0·00	—0·01	0·00		0	0.0	5·1	+0·3	0	0	0	0	0
Nokkundi ...	104·2	—5·1	113	29	75·1	—6·7	67	12,14, 15	0·00	0·00	0·00		0	0·0	10·9	+0·1	0	0	0	0	0
BALUCHISTAN (South)																					
Lasbela	113·6	+8·0	122	26	81·0	+0·6	71	13	0·15	—0·27	0·15	4	1	—0·2	3·3	0·0	0	0	0	0	1
Ormora	94·9	+2·2	109	26	81·5	—0·5	79	11	0·00	—0·03	0·00		0	—0·2	11·1	+2·3	0	0	0	0	3
Pasni	96·5	+2·7	111	15	78·5	0·0	75	12,13	0·00	—0·26	0·00		0	—0·2	13·6	+7·0	0	0	0	0	5
Turbat	114·6		120	4 days	83·0		77	11	0·00		0·00		0		4·3		0	0	0	0	1
Panjgur	98·7	—4·5	105	29	70·7	—3·9	61	16	0·00	—0·12	0·00		0	—0·4	5·2	+0·4	0	0	0	0	0
SIND (Upper)																					
Reti	112·8		117	5,27, 28	82·8		71	2	0·00		0·00		0		(b) 8·3	~~8·3(b)~~	0	0	0	0	3
Jacobabad ...	112·7	—1·2	118	6	83·8	—1·1	75	17	0·00	—0·26	0·00		0	—0·3	7·0	+0·8	1	0	0	0	0
Sukkur	110·2	+1·1	116	28	81·5	—1·9	76	19	0·00	—0·14	0·00		0	—0·5	1·9	—2·3	0	0	0	0	2
Padidan	111·1		116	13	80·4		73	10	0·00		0·00		0		6·3		0	0	0	0	0
SIND (Lower)																					
Umarkot... ...	108·6		113	6	80·2		76	2	0·00		0·00		0		9·3		0	0	0	0	1
Chhor	(X)				81·2		77	2	0·00		0·00		0		9·4		0	0	2	3	2
Hyderabad ...	106·3	+1·8	112	17	81·5	—0·5	77	15	0·00	—0·39	0·00		0	—0·6	8·3	—1·5	0	0	0	0	0
Karachi (Air Port) †	97·0		111	25	82·5		80	8,9,11	0·00		0·00		0		10·7		0	0	0	0	7
Karachi (Manora)...	91·5	+1·1	103	13	83·4	+1·1	81	7,8,23	0·00	—0·72	0·00		0	—0·6	9·2	—1·9	0	0	0	0	0
Badin	104·4	+3·4	114	25	82·0	0·0	80	7 days	0·00	—0·65	0·09		0	—0·8	8·6		0	0	0	0	0
HILL STATION EXCLUDING KASHMIR AND BALUCHISTAN																					
Murree	76·7	—4·0	88	28,30	59·1	—1·4	43	1	3·15	—0·83	1·72	1	5	—0·8	6·7	+2·7	7	2	0	0	0
Cherot	91·7	—1·5	104	30	71·1	—2·1	57	1	0·21	—0·93	0·12	11	1	—1·0	6·3	+0·6	7	0	0	0	0
Drosh ...	88·9	—3·0	106	30	66·0	—2·5	51	1	0·19	—0·46	0·12	1	1	—1·0	4·3	+0·6	6	0	0	0	0
Para Chinar ...	85.6(d)	—2·1	99	29,30	61·2	—2·5	53	1	0·58	—1·42	0·22	10	3	—1·5	3·6	+1·2	10	0	0	0	0
Wana	94·3 (d)	—0·3	107	30	64·4	—3·9	58	16	0·00	—0·43	0·00		0	—1·5	0·2		0	0	0	0	0

(b) Mean of 29 days.

(c) Same observatory was previously designated as Karachi (Drigh Road)

(d) Mean of 27 days. (e) Mean of 26 days. (X) Data rejected. (X) Data not available.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JUNE 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normals	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hour	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
AFGHANISTAN																					
Jalalabad ...	101·6		113	29	73·5		62	18	0·00		0·00		0		2·7		1	0	0	0	0
Kabul	84·2	—2·7	95	28	52·6	—3·4	41	1	p·00	—0·17	0·00		0	—0·5	3·0	+0·8	0	0	0	0	2
Kandahar ...	96·2		105	29	56·3		50	2	0·00		0·00		0		1·1		0	0	0	0	0
IRAN																					
Jask	97·0	+0·6	104	15	83·1	0·0	75	30	0·00	—0·04	0·00		0	—0·1	7·3	—0·3	0	0	0	0	0
ARABIA																					
Muscat	97·8	—0·3	106	26	87·6	—0·5	81	13	0·00	—0·08	0·00		0	—0·1	2·8	—0·6	0	0	0	0	0
Kuwait (†) ...	99·9		107	6,7	*				0·00		0·00		0		8·2		0	0	0	0	0

~~* Data not available~~ ~~(b) Mean of 29 days.~~ ~~(d) Mean of 27 days.~~ (†) Observations recorded at 0600 hours G. M. T. instead of 0300 hours G. M. T.

Regd. No. S.- 1452

PAKISTAN WEATHER REVIEW, 1951

MONTHLY WEATHER REPORT

JULY

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Chief Features :—(1) A shallow depression persisted in north Arabian Sea during the period 20th to 25th.

(2) One depression from the Bay of Bengal travelling across India from the 25th to the 30th affected weather in West Pakistan and caused active monsoon in East Pakistan during the period.

West Pakistan :—One western disturbance and four low pressure waves moved eastwards across Kashmir and the adjoining areas of West Pakistan during the first three weeks. They were responsible for (1) marked spell of wet weather and thunderstorms activity in the North-West Frontier Province and the Punjab during the period 1st to 5th, 13th to 15th and 18th to 24th. (2) A few thundersrotms/showers in northeast Baluchistan and upper Sind on the 14th and rain in north Baluchistan on the 24th.

The accentuation of the Seasonal low over West Pakistan also caused local duststorms and dust-raising winds in the plains of West Pakistan between the 11th and the 13th.

A shallow depression appeared in the north Arabian Sea off Kathiawar coast on the 20th. It persisted there for the next two days and weakened into a trough by the 23rd. But by the evening of the 24th it revived into a shallow depression and moving in a northwesterly direction was centred on the morning of the 25th within half a degree of latitude 21°N and longitude 68°E. In its association local dust/thunderstorms and rain occurred in lower Sind during the period 22nd to 25th According to press reports low lying areas of Karachi were flooded and a six year old girl was killed in a house collapse. Damage was also done to electric wires and a number of trees were uprooted.

A cyclonic storm in the northwest angle of the Bay centred within half a degree latitude 19 1/2°N and longitude 87°E on the 25th crossed Orissa coast by 1200 G.M.T. of the same day. The shallow depression in the north Arabian Sea became unimportant by this time. The cyclonic storm lay as a deep depression near Pendra on the 26th with its associated trough extending up to Rajputana and adjoining Sind. In its association monsoon advanced into the Punjab and Sind. The depression moving in westnorth-westerly direction recurved from a point near Kotah on the 28th and after moving north north-eastwards across north Rajputana finally filled up over Kumaon hills by the 30th. Chief associated features were :—

(1) Marked spell of wet weather and thunderstorm activity in the north Punjab from the 26th till the close of the month and

(2) thunderstorms/showers elsewhere in West Pakistan between the 26th and 29th.

Some of the noteworthy amounts of rainfall recorded during the month were :—Murree 1 1/2 in. and Sialkot 1 in. on the 2nd ; Murree 3/4 in. , Jhelum and Khushab 1/2 in. each on the 13th ; Lyallpur, Lahore and Sialkot 1/2 in. each on the 14th ; Multan 1 in. on the 15th ; Murree 1 in., Chakdara and Cherat 1/2 in. each on the 18th ; Chakdara 1 1/2 in. on the 19th ; Murree 1 in. on the 20th ; Pasni 1/2 in. on the 22nd ; Murree and Sialkot 3/4 in. each, and Rawalpindi 1/2 in. on the 23rd ; Lahore, Leiah, Miranshah and Bannu 1/2 in. each o n the 24th ; Karachi (Airport) and Badin 1¼ in. each on the 25th ; Sibi 1 in., Sialkot and Murree 1/2 in. each on the 26th ; Badin 3/4 in. on the 27th ; Murree, Sialkot, Lahore, Rawalpindi, Leiah and Umarkot 1/2 in. each on the 28th; Lahore 3 in. and Sialkot 1/2 in. on the 29th.

The mean rainfall during the month was in moderate defect over the north Punjab and lower Sind and in large defect elsewhere. Averaged over the region it was normal. The mean maximum temperature was above normal over Sind and normal elsewhere. The mean minimum temperature was normal over the region except the upper North-West Frontier Province where it was below normal. The mean relative humidity was normal over the region except the upper North-West Frontier Province and upper Sind where it was in defect. Skies were clouded as usual in the north Punjab, south Baluchistan and lower Sind. Elsewhere they were less clouded than usual.

East Pakistan :—Monsoon activity continued unabated till the 18th but decreased thereafter due to markedly unsettled conditions off Orissa coast which culminated into a shallow depression by the 20th. The shallow depression persisting there weakened by the morning of the 23rd.

Conditions became markedly unsettled again in the central and the adjoining north Bay on the same day and formed into a depression by the evening of the 24th with its central region with in one degree latitude 17°N and longitude 88°E. By the morning of the 25th it intensified into a cyclonic storm and was centred within half a degree latitude 19½°N and longitude 87°E when Monsoon activity increased at once over East Pakistan. The storm crossed Orissa coast by the evening of the same day.

A well marked trough appearing in the north Bay on the 29th, concentrated into a depression by 1200 G.M.T. of the same day and crossed Orissa coast near Chandbali in the evening of the 30th. Monsoon remained strong till the end of the month.

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WEATHER BUREAU

Some of the noteworthy amounts of rainfall recorded during the month were :—Chittagong 4 in. on the 1st ; Rangpur 6in., Bogra 5 in., and Chittagong and Mymensingh 4 in. each on the 2nd ; Brahmanbaria 5 in. on the 5th ; Narayanganj 4-in. on the 6th ; Chittagong 5-in. on the 13th ; Comilla 5-in. on the 28th ; Comilla and Khulna 4 in. each on the 29th.

The mean rainfall during the month was in slight excess over the Eastern sub-division and normal elsewhere. Averaged over the region it was normal. The mean maximum and minimum temperatures and relative humidity were normal. Skies were clouded normally over the region.

Table I contains the Divisional and Sub-Divisional means of rainfall, temperature, humidity and cloud for the 5 chief Divisions and 12 Sub-Divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS, JULY 1951.

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
ast Pakistan	16·53	15·35	+1·18	+8	0·0	—0·2	+0·1	0	+0·3
ean of East Pakistan	16·53	15·35	+1·18	+8	0·0	—0·2	+0·1	0	+0·3
unjab	2·17	4·50	—2·33	—52	+1·6	—0·5	—2·0	—5	—0·7
-W. F. P.	1·05	1·81	—0·76	—42	—0·3	—1·9	—2·5	—5	—0·9
luchistan	0·31	0·99	—0·68	—69	—0·7	—1·2	—0·7	—1	—0·7
nd	1·47	2·51	—1·04	—41	+2·9	—0·1	—2·5	—5	—0·8
ean of West Pakistan excluding Baluchistan	1·74	3·38	—1·64	—48	+1·7	—0·6	—1·4	—5	—0·8
Sub-Division									
st Pakistan (North)	12·98	13·05	—0·07	—1	—0·5	+0·7	—0·3	0	+0·3
st Pakistan (South)	20·86	18·67	+2·19	+12	—0·4	+0·3	+0·1	0	+0·2
st Pakistan (Deltaic)	14·25	13·23	+1·02	+7	+0·7	—0·1	+0·4	0	+0·3
ashmir*									
orth Punjab	3·26	5·75	—2·49	—43	+1·1	—0·9	—1·7	—5	—0·5
uth Punjab	0·35	2·46	—2·11	—86	+2·2	+0·1	—2·4	—5	—0·8
-W.F.P. (Upper)	0·41	1·16	—0·75	—65	0·0	—2·2	—4·0	—9	—1·4
-W.F.P. (Lower)	1·26	2·02	—0·76	—37	—0·5	—1·8	—2·0	—4	—0·8
luchistan (North)	0·34	1·12	—0·88	—79	—0·6	—1·3	—0·6	0	—0·8
luchistan (South)	0·21	0·64	—0·43	—67	—0·9	—1·0	—0·8	—3	—0·5
nd (Upper)	0·11	1·19	—1·08	—91	+2·7	—0·6	—5·5	—8	—0·7
nd (Lower)	2·38	3·38	—1·00	—29	+3·0	+0·2	—0·4	—3	—0·9

* Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY 1951.

Sub-Division and Station	Hours of Observation	Height of bar cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest Gpkm level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	GMT	Ft.	mb.	mb.	mb.	°F	°F	°F	mb.	mb.	%	%	Oktas									
EAST PAKISTAN (North)																						
Pabna	0300	...	...	...	...	84·1	80·3	74·0	33·2	—0·4	83	—1	...	...	...	...	...	...	...	...	...	
Sirajganj	0000	49	999·0	...	1000·7	80·4	79·3	78·7	33·4	...	95	...	6·9	...	0	0	3	8	3	0	0	0
	0300	...	1000·8	...	1002·2	81·4	80·3	79·2	34·5	...	90	...	7·1	...	0	0	3	8	8	0	0	0
	1200	...	997·5	...	998·9	83·7	80·9	79·5	34·8	...	88	...	6·2	...	1	0	4	12	4	1	0	0
Bogra ×	0000	65	999·5	...	1001·7	80·1	78·5	77·9	32·6	...	93	...	7·0	...	0	0	2	1	3	4	0	0
	0300	63	1000·5	+1·8	1002·7	83·1	79·8	75·0	32·8	—0·4	86	+1	6·9	+0·6	1	1	6	9	1	12	0	0
	1200	63	997·4	...	999·5	85·7	80·5	77·8	33·9	...	79	...	5·9	...	0	1	1	6	3	1	2	0
Dinajpur	0000	123	998·3	...	1002·5	80·0	78·3	77·7	32·6	...	93	...	6·3	...	0	3	6	2	1	0	0*	0
	0300	...	999·6	+3·1	1003·8	82·5	79·0	77·7	32·8	0·0	85	—1	6·3	+0·1	0	1	11	2	1	0	0	0
	1200	...	996·3	...	1000·5	85·3	80·3	78·2	32·7	...	79	...	4·6	...	0	0	4	0	0	0	0	0
EAST PAKISTAN (East)																						
Cox's Bazar	0000	38	1003·3	...	1004·7	77·4	76·3	76·0	30·2	...	95	...	6·3	...	0	0	1	8	8	1	0	0
	0300	...	1004·6	+3·3	1005·9	81·9	78·5	77·0	31·7	—0·2	85	—3	5·9	—0·6	0	0	0	9	11	0	0	0
	1200	...	1002·7	...	1003·4	80·9	77·7	76·1	31·4	...	87	...	6·2	...	1	0	0	8	15	0	0	0
Chittagong	0300	87	1001·9	+2·4	1004·9	82·1	77·8	76·1	30·2	—1·0	81	—5	5·8	—0·5	0	2	3	16	9	0	1	0
	1200	...	999·4	...	1002·4	81·3	77·3	75·6	29·9	...	83	...	6·5	...	0	0	1	7	12	7	2	1
Comilla	0000	29	1002·6	...	1003·6	78·0	76·5	75·8	30·5	...	93	...	7·3	...	0	0	5	13	11	1	0	1
	0300	...	1003·6	+2·6	1004·6	81·8	79·2	77·6	33·3	+1·1	89	+4	7·1	+1·3	1	0	1	14	10	5	0	0
	1200	...	1000·7	...	1001·7	83·3	79·2	77·6	32·0	...	83	...	7·2	...	2	0	0	11	13	3	1	0
Narayanganj	0000	26	1001·0	...	1001·8	80·7	78·4	77·5	32·2	...	90	...	7·4	...	0	1	4	8	16	1	0	0
	0300	...	1002·2	+1·7	1003·0	84·0	79·1	78·3	31·6	—1·3	84	—1	7·4	+0·4	1	0	5	7	14	3	1	0
	1200	...	999·4	...	1000·4	84·1	79·0	77·0	31·6	...	81	...	6·5	...	0	0	1	7	20	1	1	0
Brahmanbaria	0000	32	1002·2	...	1003·3	79·3	77·5	76·7	30·8	...	92	...	6·2	...	0	1	4	7	14	1	0	0
	0300	...	1003·2	...	1004·3	83·1	79·2	77·8	32·0	+1·2	85	+4	6·4	...	1	0	2	5	18	1	0	0
	1200	...	1000·5	...	1001·6	83·7	79·6	77·8	33·2	...	83	...	5·3	...	1	0	1	4	16	2	0	0
Srimangal	0000	69	1001·5	...	1003·9	76·5	75·5	74·8	30·2	...	94	...	6·8	...	0	0	3	6	10	0	0	0
	0300	...	1002·2	+2·1	1004·6	80·9	77·7	76·5	31·4	—0·4	86	0	7·1	+1·7	2	3	3	4	17	0	0	0
	1200	...	999·2	...	1001·3	82·9	79·4	78·1	32·8	...	86	...	6·8	...	2	0	2	2	14	1	7	0
Mymensingh	0000	62	1000·2	...	1002·3	80·1	78·7	78·5	32·6	...	94	...	5·6	...	0	0	4	0	0	0	0	0
	0300	...	1001·7	+2·0	1003·8	82·9	79·8	78·5	32·6	+1·1	87	0	6·7	—0·2	0	0	15	3	0	0	1	0
	1200	...	998·8	...	1001·0	84·8	80·6	78·8	34·3	...	82	...	6·3	...	0	0	6	3	0	0	1	0
EAST PAKISTAN (Deltaic)																						
Faridpur	0000	46	1000·3	...	1001·9	79·6	78·5	77·6	33·4	...	96	...	7·0	...	0	5	17	0	0	0	0	0
	0300	...	1001·8	+2·5	1003·4	83·2	80·1	78·7	33·6	—0·1	87	+2	7·2	+1·0	0	8	20	0	0	0	0	0
	1200	...	999·1	...	1000·7	83·3	80·1	79·0	33·6	...	87	...	6·4	...	0	7	23	0	0	0	0	0
Barisal	0000	11	1002·0	...	1002·4	79·6	78·7	78·3	33·4	...	96	...	7·4	...	1	1	0	11	11	4	1	0
	0300	...	1003·3	+2·6	1003·7	83·6	80·3	78·9	34·0	+0·9	85	—2	7·4	+1·1	0	1	4	9	13	2	1	0
	1200	...	1000·5	...	1000·9	82·5	79·0	77·6	32·8	...	85	...	7·4	...	1	0	1	10	17	2	0	0
Khulna	0000	16	1001·5	...	1002·0	80·2	78·8	78·5	32·6	...	93	...	5·7	...	0	1	4	12	8	3	0	0
	0300	...	1002·9	+3·1	1003·4	84·0	80·1	78·4	33·2	+0·4	83	0	52	—1·8	0	2	4	8	13	4	0	0
	1200	...	1000·3	...	1000·8	83·5	79·5	77·5	32·0	...	83	...	5·2	...	0	0	3	14	8	5	0	0
Jessore	0000	26	1000·8	...	1001·7	79·8	78·6	78·3	33·4	...	96	...	6·5	...	0	1	2	7	12	2	0	0
	0300	...	1001·9	2·1	1002·8	84·3	80·6	79·2	34·0	+0·4	85	0	6·5	+0·1	0	1	3	8	14	2	0	1
	1200	...	999·4	...	1000·3	84·9	80·2	78·1	33·5	...	81	...	6·5	...	0	1	2	10	15	2	1	0
Satkhira	0000	16	1000·9	...	1001·5	80·3	79·0	78·2	32·6	...	94	...	7·0	...	0	4	1	13	6	3	0	0
	0300	...	1002·6	+3·1	1003·1	84·0	80·3	78·7	34·0	+0·3	85	0	7·0	+1·1	0	3	0	12	1	13	0	0
	1200	...	999·3	...	999·6	84·1	80·4	78·3	34·0	...	83	...	7·1	...	0	1	0	17	0	8	0	1

* Observations at 1000 hrs. recorded from a distant site by P. B. O. Staff.

Sub-Division and Station	Hours of Observation	Height of bar cistern above mean sea level	Mean pressure			Mean temperature of the air & humidity							Total Cloud amount		Wind direction, Number of observations from :—								
			Stn. level reduced to standard temp. and gravity	Departure from normal	Reduced to standard temp. & M.S.L. or nearest Gpkm level	Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	mb.	mb.	mb.	°F	°F	°F	mb.	mb.	%	%	Oktas										
KASHMIR																							
Srinagar*	0000	5,205																					
	0300																						
	1200																						
Gulmarg*	0000	8,709																					
	0300																						
	1200																						
Dras*	0000	10,059																					
	0300																						
	1200																						
Leh*	0000	11,529																					
	0300																						
	1200																						
Skardu*	0000	7,505																					
	0300																						
	1200																						
Gilgit*	0000	4,890																					
	0300																						
	1200																						
Misgar	0000	10,190	698·8	...	702·4	49·9	41·5	32·1	6·3	...	51	...	3·5	...	0	0	2	0	0	0	4	25	...
	0300	...	699·3	...	702·9	53·7	43·6	33·2	6·6	...	47	...	3·1	...	0	0	5	0	0	0	4	22	...
	1200	...	696·3	...	699·8	67·9	47·8	27·0	5·1	...	22	...	3·1	...	0	0	20	0	0	0	9	2	...
NORTH PUNJAB																							
Lahore	0000	702	974·0	...	997·8	81·2	75·4	72·4	26·8	...	74	...	2·6	...	0	1	5	7	0	0	1	1	16
	0300	...	975·5	+1·5	999·1	85·8	76·6	72·3	27·1	—2·1	65	—4	2·8	—0·4	3	5	1	10	1	1	4	2	4
	1200	...	972·5	...	995·6	97·6	79·0	69·3	25·4	...	42	...	2·3	...	2	3	5	2	1	3	6	1	8
Sialkot	0000	830	970·2	...	998·2	82·0	73·9	69·3	24·9	...	67	3·9	...	...	3	9	6	0	0	0	0	2	11
	0300	...	971·6	+1·6	999·4	86·0	75·8	70·5	25·8	—4·1	60	—15	3·5	+0·3	0	5	5	6	1	0	1	0	13
	1200	...	968·5	...	995·7	97·8	78·8	69·9	25·0	...	41	...	3·4	...	1	2	2	5	3	5	1	3	9
Jhelum	0000	765	972·9	...	998·7	80·0	75·5	73·1	26·7	...	76	...	2·5	...	0	0	2	3	1	1	1	4	19
	0300	...	973·9	...	999·4	85·7	77·7	74·1	28·8	...	68	...	2·7	...	1	0	2	5	0	0	0	5	18
	1200	...	970·6	...	995·4	97·8	83·6	77·9	32·5	...	54	...	2.1	...	0	1	0	5	3	10	2	2	8
Rawalpindi	0000	1,676	942·7	...	998·7	77·9	70·9	67·3	23·0	...	70	...	2·5	...	0	2	0	0	0	0	0	0	29
	0300	...	944·0	+1.7	999·4	85·0	73·2	67·4	23·1	—3·4	56	—10	2·7	—0·7	1	0	0	0	0	0	0	0	30
	1200	...	941·3	...	995·3	97·1	75·6	65·1	21·4	...	36	...	2·6	...	1	0	1	1	3	0	4	0	21
Khushab	0000	616	976·9	...	997·8	83·7	75·4	71·5	26·3	...	71	...	1·0	...	3	7	6	6	1	3	1	0	4
	0300	...	978·1	+1·4	998·7	88·1	77·5	72·5	27·4	—1·7	60	—6	1·7	—0·8	2	7	12	6	1	0	1	1	1
	1200	...	974·8	...	994·9	100·9	82·3	74·2	29·2	...	43	...	1·1	...	1	0	10	11	6	3	0	0	0
Lyallpur	0000	605	976·1	...	996·5	81·0	77·8	74·9	31·1	...	87	...	1·3	...	1	2	6	5	3	1	0	0	13
	0300	...	977·8	+1·3	998·1	86·2	79·2	75·7	30·9	+2·7	72	+9	2·1	—1·1	1	7	2	6	7	2	1	2	3
	1200	...	975·0	...	994·7	99·3	84·6	78·2	33·9	...	53	...	1·5	...	2	5	4	5	3	4	1	1	6
SOUTH PUNJAB																							
Montgomery	0000	558	978·3	...	997·1	83·2	75·0	71·2	26·0	...	67	...	3·3	...	0	2	0	1	0	4	2	1	21
	0300	...	979·8	+1·7	998·5	87·8	77·5	72·5	27·5	—4·2	60	—10	3·1	+1·2	0	0	2	7	3	6	0	2	11
	1200	...	976·6	...	994·8	100·7	79·8	69·0	25·3	...	38	...	3·0	...	1	2	2	0	0	3	1	0	22
Multan	0300	413	984·3	+1·8	998·1	89·1	77·7	72·6	27·3	—5·1	59	—9	0·8	—1·0	3	1	5	3	11	6	1	0	1
	1200	...	981·4	...	994·8	103·7	80·9	70·0	25·6	...	36	...	0·9	...	3	1	3	2	9	6	1	3	3
Fort Abbas	0000	475	981·1	...	997·0	84·8	71·6	62·8	20·5	...	51	...	0·9	...	0	7	0	4	0	17	0	3	0
	0300	...	983·1	...	999·0	91·1	76·5	68·7	24·5	...	49	...	0·7	...	0	0	1	8	0	21	0	1	0
	1200	...	979·1	...	994·5	104·1	...	...	...	...	...	...	1·0	...	1	5	0	2	0	19	0	4	0

* Data not available.

Sub-Division and Station	Hours of Observation	Height of bar distern above mean sea level	Mean pressure			Mean temperature of the air & humidity							Total Cloud amount		Wind direction, Number of observations from :—								
			Stn. level reduced to standard temp. and gravity	Departure from normal	Reduced to standard temp. & M.S.L. or nearest GPKM level	Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	mb.	mb.	mb.	°F	°F	°F	mb.	mb.	%	%	Oktas										
Bahawalpur	0300	384	985·6	+2·0	998·0	87·9	78·1	73·4	28·4	—3·5	62	—6	0·5	—1·7	0	2	4	1	1	17	2	1	3
	1200	...	982·2	...	994·5	104·2	81·9	71·7	27·0	...	36	...	1·2	...	2	2	1	0	3	11	3	2	7
Khanpur	0300	297	988·3	+1·6	998·3	88·4	80·9	78·0	32·6	+3·2	71	+5	0·4	—1·7	3	3	1	0	7	14	3	0	0
	1200	...	984·7	...	994·3	106·7	88·3	81·7	37·2	...	46	...	0·7	...	2	4	2	1	4	12	3	3	0
N.W.F.P. (Upper)																							
Chakdara	0000	2,197	924·8	...	998·8	75·7	66·6	61·8	18·0	...	62	...	1·9	...	14	1	3	3	4	0	0	4	2
	0300	...	926·0	...	999·4	80·6	68·8	62·5	19·3	...	53	...	1·2	...	1	1	3	2	1	1	9	3	10
	1200	...	923·0	...	994·7	93·3	74·4	64·0	21·3	...	39	...	1·1	...	1	2	3	3	4	1	2	5	10
Peshawar	0000	1,175	958·5	...	998·0	79·7	69·7	63·1	20·3	...	59	...	1·7	...	5	1	1	1	1	2	1	3	16
	0300	...	960·0	+1·7	999·0	86·7	72·9	64·8	21·4	—4·0	49	—9	1·4	—1·4	10	4	2	3	1	2	0	2	7
	1200	...	956·3	...	994·3	99·8	74·8	59·9	18·1	...	28	...	3·5	...	2	16	4	4	1	1	2	1	0
Landikotal	0000	3,503	884·3	...	889·1	75·3	67·1	62·0	19·3	...	65	...	1·8	...	0	9	0	0	0	0	0	3	19
	0300	...	885·6	...	890·3	82·9	70·6	63·8	20·5	...	53	...	1·1	...	1	10	0	1	0	0	0	6	13
	1200	...	882·8	...	887·4	92·1	74·6	65·9	22·1	...	43	...	2·8	...	0	8	0	14	0	3	0	2	4
N.-W.F.P. (Lower)																							
Bannu	0000	1,264	955·3	...	997·5	82·6	72·6	67·3	22·8	...	60	...	1·3	...	6	1	2	2	1	1	0	1	17
	0300		956·3	...	998·2	87·3	76·2	70·7	25·8	—0·7	58	0	1·0	—1·1	0	2	4	2	0	0	0	1	22
	1200	...	953·8	...	994·7	99·0	77·0	66·7	21·7	...	34	...	0·9	...	4	1	9	5	3	0	0	1	8
Miranshah	0000	3,026	889·5	...	889·4	80·0	67·2	58·1	17·1	...	49	...	1·2	...	0	3	12	14	0	2	0	0	0
	0300	...	980·4	...	890·5	83·9	70·4	62·1	19·9	—3·2	50	—9	1·4	—0·8	1	0	4	2	0	1	1	0	22
	1200	...	898·4	...	888·7	93·0	73·4	62·1	20·1	...	38	...	3·9	...	0	5	11	12	1	1	0	1	0
D. I. Khan	0000	570	977·9	...	997·2	82·5	75·1	71·1	26·4	...	69	...	0·9	...	0	14	2	2	0	1	0	0	12
	0300	...	978·2	+0·9	997·4	86·5	78·0	74·9	28·8	—2·1	67	—2	1·5	—0·5	3	11	6	4	0	0	0	0	7
	1200	...	976·1	...	994·7	102·4	82·1	73·5	28·2	...	39	...	1·2	...	4	4	4	4	3	1	1	0	7
BALUCHISTAN (North)																							
Fort Sandeman	0300	4644	851·6	+0·5	888·6	81·6	64·0	51·5	13·3	—6·0	...	...	0·4	—1·0	0	2	0	0	0	2	0	0	27
	1200	...	849·3		886·8	95·2	63·9	37·2	7·5	...	14	...	3·2	...	0	8	0	5	1	2	0	2	13
Hindubagh	0000	5,950	814·2	...	791·5	68·7	54·8	42·9	9·5	...	41	...	0·3	...	0	2	0	0	2	4	18	3	2
	0300	...	815·3	...	792·7	79·7	59·4	42·4	9·7	...	28	...	0·1	...	0	1	3	0	2	14	5	0	6
	1200	...	812·4	...	789·8	91·4	61·9	37·4	8·3	...	17	...	1·9	...	0	0	3	0	1	15	11	1	0
Loralai	0000	4,699	845·3	...	889·7	70·5	63·5	58·6	17·1	...	60	...	1·0	...	0	0	0	0	1	3	3	1	23
	0300	...	849·6	...	889·9	78·6	68·6	61·9	19·7	...	59	...	0·5	...	0	0	1	1	0	2	4	2	21
	1200	...	847·0	...	886·3	91·4	74·7	61·5	21·9	...	45	...	0·6	...	0	0	0	12	15	0	1	1	2
Sibi	0000	441	981·4	...	995·8	90·9	75·8	66·7	23·8	...	48	...	1·3	...	1	1	0	5	4	2	0	0	18
	0300	...	982·9	+2·0	997·4	92·7	77·3	70·0	24·6	—2·5	47	—8	0·7	—0·9	0	1	1	5	10	4	0	1	9
	1200	...	978·8	...	992·9	109·3	78·3	61·3	18·3	...	22	...	1·0	...	0	0	0	6	10	15	0	0	0
Quetta	0000	5,499																					18
	0300	...	826·3	+0·3	791·8	74·8	63·1	55·5	15·6	—2·5	52	—9	0·2	—0·9	1	1	0	0	7	4	0	0	81
	1200	...	824·2	...	790·8	91·3	63·6	43·9	9·9	...	21	...	1·3	...	3	2	0	0	5	4	4	12	1
Quetta (Samungli)	0000	5,253	834·8	...	792·7	65·0	56·9	50·9	12·9	...	62	...	0·8	...	0	1	8	16	1	0	2	0	3
	0300	...	835·7	...	794·4	75·3	64·4	55·5	16·4	...	55	...	0·3	...	0	0	7	9	1	2	1	1	10
	1200	...	833·3	...	793·3	93·0	72·3	60·5	19·6	...	38	...	1·8	...	2	0	1	1	0	3	16	7	1
Chaman	0000	4,311	860·1	...	889·2	77·7	61·2	48·1	11·6	...	36	...	0·3	...	0	0	8	17	5	1	0	0	0
	0300	...	861·5	+1·8	890·1	84·0	67·3	55·8	16·1	+3·2	40	+7	0·3	—0·4	0	1	1	7	9	9	2	2	0
	1200	...	859·9	...	887·0	97·6	77·6	67·3	24·0	...	39	...	0·0	...	1	0	0	1	2	5	11	10	1
Nushki	0000	3,412	892·4	...	894·6	83·2	67·4	52·8	16·5	...	41	...	0·4	...	2	0	20	5	1	1	0	0	2
	0300	...	893·7	...	895·3	88·2	70·6	63·2	18·4	...	41	...	0·8	...	1	0	18	5	1	1	1	2	2
	1200	...	890·6	...	892·4	104·4	77·3	63·2	20·9	...	28	...	1·1	...	0	0	0	1	0	3	17	9	1
Kalat	0000	6,616	795·2	...	792·6	60·5	53·4	48·4	10·7	...	60	...	0·0	...	0	0	0	0	0	16	0	0	15
	0300	...	796·2	+2·3	793·7	69·5	59·7	53·5	13·1	+0·8	32	+5	0·0	—1·6	0	0	0	1	25	0	0	0	5
	1200	...	794·4	...	791·7	85·4	71·0	63·0	19·3	...	47	...	0·5	...	6	1	0	1	3	4	2	13	1

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF JULY 1951—*contd.*

Sub-Division and Station	Hours of Observation	Height of bar cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest Gpkm level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	mb.	mb.	mb.	°F	°F	°F	mb.	mb.	%	%	Oktas										
Dalbandin	0000	2,785	906·2	...	888·9	78·3	60·1	44·6	10·7	...	32	...	0·6	...	2	2	0	2	1	0	4	3	17
	0300	...	908·0	+2.2	89·5	84·2	63·1	46·7	11·0	—1·7	28	—5	0·6	—0·4	0	3	0	1	0	4	4	3	16
	1200	...	914·8	...	888·1	105·4	71·8	49·9	13·1	...	16	...	1·5	...	0	1	0	3	2	12	6	3	2
Nokkundi	0000	2,229	923·2	...	996·3	84·2	65·3	53·3	13·3	...	34	...	0·8	...	11	2	2	0	0	0	1	12	3
	0300	...	925·2	...	997·2	88·5	73·1	64·4	21·4	+4·2	46	+8	0·8	—0·2	10	4	2	2	0	1	0	9	3
	1200	...	922·3	...	992·3	106·5	81·2	67·2	27·3	...	33	...	0·0	...	11	2	2	0	1	0	2	13	0
BALUCHISTAN (South)																							
Las Bela (R)	0000	292																					
	0300																						
	1200																						
Ormara	0000	15	998·8	...	999·3	82·2	79·4	78·6	32·8	...	87	...	3·6	...	0	0	2	0	1	12	12	0	4
	0300	...	1000·0	...	1000·5	84·1	80·0	78·4	33·0	+1·4	83	0	4·9	—0·8	0	0	3	1	0	12	12	0	3
	1200	...	997·4	...	997·8	88·3	81·2	78·5	32·7	...	73	...	2·1	...	0	0	1	1	1	14	14	0	0
Pasni	0000	10	999·7	...	1000·0	79·7	76·8	75·5	29·8	...	87	...	4·9	...	0	0	5	2	0	5	8	0	11
	0300	...	1000·8	+2·2	1001·0	82·9	78·2	76·3	31·3	—1·3	81	—3	5·1	+0·1	0	1	2	7	2	9	7	0	3
	1200	...	998·0	...	998·2	87·9	79·7	76·3	31·7	...	69	...	1·7	...	0	0	0	2	5	21	2	0	1
Turbat	0000	510	983·9	...	1001·2	83·9	79·5	77·0	32·5	...	81	...	4·3	...	0	0	0	0	2	5	4	0	20
	0300	...	985·0	...	1002·0	88·2	80·9	77·3	32·4	...	74	...	3·7	...	0	0	0	0	2	3	2	0	24
	1200	...	980·9	...	997·1	106·9	90·0	82·9	40·3	...	50	...	2·2	...	0	1	0	1	3	15	9	0	2
Panjgur	0000	3,177	896·0	...	890·8	76·5	68·0	61·3	19·9	...	64	...	1·4	...	4	4	0	1	1	4	10	5	2
	0300	...	896·4	+1·9	891·2	80·4	69·7	62·1	20·5	—2·5	58	—7	1·0	—0·8	4	5	0	1	1	6	6	7	1
	1200	...	894·3	...	889·1	99·6	72·5	47·4	16·3	...	26	...	2·4	...	1	4	0	1	0	5	2	18	0
SIND (Upper)																							
Reti	0000	280	988·4	...	997·6	85·1	80·3	77·8	33·0	...	79	...	0·2	...	1	0	1	1	20	3	3	2	0
	0300	...	989·9	...	999·4	87·9	81·7	79·1	34·3	...	76	...	0·8	...	3	2	1	3	13	4	4	0	1
	1200	...	985·9	...	995·0	109·0	90·0	82·5	39·4	...	46	...	0·0	...	3	3	2	1	10	5	4	1	2
Jacobabad	0000	183	990·1	...	996·4	86·0	76·2	71·5	26·4	...	61	...	0·9	...	1	1	6	12	8	1	0	2	0
	0300	...	991·6	+1·6	997·9	88·6	77·3	72·0	24·8	—8·3	57	—11	1·0	—0·5	1	2	8	13	2	1	1	1	2
	1200	...	987·8	...	993·8	108·2	79·2	64·1	20·8	...	25	...	0·7	...	1	0	1	14	12	1	1	0	1
Sukkur	0300	221	990·0	+1·1	997·5	84·9	77·3	74·1	28·6	—2·8	70	—5	0·9	—0·8	1	1	2	5	10	9	1	0	2
	1200	...	986·5	...	993·7	107·3	82·8	72·2	27·1	...	34	...	0·7	...	2	3	0	4	6	6	3	2	5
Padidan	0000	153	991·0	...	996·2	83·9	76·1	72.4	27·2	...	68	...	2·6	...	2	0	0	18	9	0	0	0	2
	0300	...	992·0	...	997·2	87·0	77·5	73·1	27·9	...	63	...	2·8	...	1	3	0	22	2	2	0	0	1
	1200	...	989·0	...	994·0	108·2	79·6	65·2	21·6	...	26	...	2·4	...	0	2	0	13	10	3	1	1	1
SIND (Lower)																							
Umarkot	0000	55	996·7	...	998·6	81·4	77·9	76·6	31·0	...	85	...	2·6	...	1	1	0	0	9	11	4	0	5
	0300	...	997·6	...	999·5	87·2	80·0	77·2	31·7	...	72	...	2·9	...	1	0	1	1	1	17	6	1	3
	1200	...	994·0	...	995·8	99·8	83·1	77·0	30·9	...	49	...	2·5	...	0	0	1	0	3	18	4	4	1
Chhor	0000	19	997·6	...	998·3	81·3	77·2	75·5	30·0	...	83	...	3·6	...	0	0	0	1	3	22	3	0	4
	0300	...	998·8	...	999·5	85·1	79·0	76·1	31·0	...	75	...	4·2	...	1	1	1	0	3	24	1	0	0
	1200	...	995·3	...	995·9	98·1	81·2	73·9	28·5	...	46	...	2·1	...	1	1	0	0	1	22	4	2	0
Hyderabad	0000	96	994·4	...	997·6	82·6	76·7	74·0	28·7	...	75	...	2·2	...	2	0	0	0	0	26	1	0	2
	0300	...	995·8	+1·6	999·1	85·8	78·3	75·1	29·7	+0·9	73	+2	2·9	—0·6	1	2	0	0	0	25	2	0	1
	1200	...	993·7	...	996·7	97·8	80·3	71·9	27·4	...	45	...	1·8	...	0	2	0	4	0	25	0	0	0
Karachi (Air Port)†	0000	73	997·0	...	999·5	82·6	78·3	77·1	31·1	...	81	...	4·9	...	0	1	0	0	0	13	14	0	3
	0300	...	998·2	...	1000·7	84·8	79·1	76·6	31·5	...	77	...	5·2	...	0	1	0	0	0	10	16	1	3
	1200	...	995·8	...	998·3	89·0	80·3	76·6	31·4	...	67	...	4·2	...	0	0	0	0	2	19	10	0	0
Karachi (Manora)	0000	33	998·8	...	999·2	82·7	78·4	76·7	31·2	...	81	...	5·8	...	0	1	1	0	0	9	17	0	3
	0300	...	1000·0	+1·5	1000·5	83·6	79·0	77·0	31·7	—1·1	81	—5	6·1	0·0	0	1	1	0	0	8	18	0	3
	1200	...	997·8	...	998·1	86·6	80·6	78·3	32·9	...	76	...	4·8	...	0	0	0	0	0	16	15	0	0

(R)—Register not received.
(†) Same observatory was previous by designated as "Karachi (Drigh Road.)"

Sub-Division and Station	Hours of Observation	Height of bar cistern above mean sea level	Mean pressure			Mean temperature of the air & humidity							Total Cloud amount		Wind direction, Number of observations from :—								
			Stn. level reduced to standard temp. and gravity	Departure from normal	Reduced to standard temp. & M.S.L. or nearest Gpkm level	Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	mb.	mb.	mb.	°F	°F	°F	mb.	mb.	%	%	Oktas										
Badin	0000	31	997·8	...	999·4	81·7	76·6	74·3	29·0	...	79	...	2·3	...	0	0	1	0	2	23	2	0	3
	0300	...	999·1	+2·0	1000·2	85·1	78·5	75·4	30·3	—1·1	73	—6	2·7	—2·2	2	0	0	1	0	20	7	0	1
	1200	...	996·3	...	997·2	95·5	80·2	75·4	28·2	...	49	...	2·9	...	1	1	1	3	0	19	4	0	2
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN																							
Murree	0000	7,113	780·4	...	791·9	62·0	56·9	53·1	14·0	...	74	...	3·8	...	1	1	3	9	0	2	6	8	1
	0300	...	781·6	+1.3	793·1	67·4	59·6	54·1	14·6	—2·6	63	—15	3·3	—0·8	1	1	7	5	1	2	5	2	7
	1200	...	780·6	...	791·9	72·8	62·9	57·0	16·2	...	58	...	4·5	...	1	2	8	7	1	4	3	4	1
Cherat	0000	4,272	862·7	...	890·8	73·7	64·7	58·7	17·2	...	61	...	1·9	...	3	0	0	5	11	1	1	8	2
	0300	...	864·0	+2.1	892·0	75·9	65·9	59·0	17·7	—2·9	58	—14	1·6	—1·5	7	0	0	4	11	2	1	3	3
	1200	...	861·1	...	889·4	88·5	70·0	60·0	17·5	...	38	...	3·0	...	2	1	0	6	17	1	0	3	1
Drosh	0000	4,806	847·4	...	891·5	72·6	58·9	46·9	11·5	...	43	...	2·0	...	0	0	0	1	1	1	0	0	28
	0300	...	848·2	+0.9	892·0	76·1	61·3	49·1	12·6	—4·9	39	—17	1·2	—0·2	0	0	1	1	0	1	0	0	28
	1200	...	843·9	...	886·3	89·9	63·0	39·5	8·8	...	18	...	3·3	...	0	0	1	1	1	14	11	0	3
Parachinar	0000	5,673	820·3	...	790·9	66·7	58·6	53·3	13·9	...	63	...	1·4	...	9	9	0	0	0	0	1	3	9
	0300	...	821·7	+1.2	79·2	73·5	61·6	53·9	14·5	—2·9	50	—1.0	1·8	—0·7	0	1	2	2	2	1	1	3	19
	1200	...	820·5	...	791·8	81·1	64·0	53·2	14·2	....	39	...	4·4	...	0	2	3	19	0	3	0	0	4
Wana	0300	4,456	*	...	*	77·6	67·8	62·2	19·2	—0·4	59	—3	0·6	—0·9	0	1	2	0	0	0	0	2	26
	1200	...	*	...	*	87·1 (*b*)	72·5	64·4	21·3	...	49	...	2·5	...	0	6	6	5	0	0	0	0	14
AFGHANISTAN																							
Jalalabad	0300	1,950	923·9	...	987·2	81·6	71·4	66·1	22·1	...	61	...	0·9	...	0	0	0	1	0	0	1	0	29
	1200	...	920·2	...	980·9	99·2	78·3	68·7	24·5	...	38	...	2·3	...	0	4	15	3	0	0	1	0	8
Kabul	0300	5,955	816·9	...	796·9	70·7	54·8	41·5	9·0	—1·8	35	—3	0·4	—0·2	3	2	0	0	4	5	7	7	3
	1200	...	814·2	...	794·9	86·1	60·5	40·1	8·8	...	21	...	2·7	...	12	11	1	0	1	0	1	2	3
Kandahar	0300	3,462	883·0	...	886·4	73·6	61·0	51·9	13·2	...	47	...	0·0	...	0	2	0	0	0	0	0	0	29
	1200	...	880·2	...	883·4	97·3	72·5	58·5	17·1	...	28	...	0·2	...	0	0	0	0	0	6	0	1	24
IRAN																							
Jask	0300	13	998·6	...	999·0	85·9	80·2	77·5	32·8	...	78	...	0·7	—1·4	1	4	19	0	0	0	2	2	3
	1200	...	997·6	...	998·0	93·8	84·4	80·8	36·2	...	66	...	0·2	...	0	0	1	0	13	12	5	0	0
ARABIA																							
Muscat	0300	20	998·3	...	998·8	87·9	82·4	80·3	35·4	...	78	...	1·7	—0·9	5	3	4	2	2	0	1	6	8
	1200	...	997·1	...	997·4	90·0	84·1	82·0	37·1	...	77	...	X	...	2	6	4	5	3	0	0	9	2
Kuwait + ...	0300	16	998·3	...	999·0	93·5	*	*	*	...	*	...	0·0	...	3	0	0	0	0	3	13	6	6
	1200	...	997·0	...	997·2	104·1	*	*	*	...	*	...	0·0	...	1	3	7	4	1	0	3	6	6

+ Observations recorded at 0500 hours G.M.T. instead of 0300 hours G.M.T. (X) Data not available. * Data rejected. (*b*) Mean of 29 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JULY 1951.

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)				Days with 0.10" or more	Departure from normal	Wind velocity (K.nots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date			Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust Storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (North)																					
Pabna ...	89·7	0·0	95	24, 25	78·3	+1·9	73	13	6·66	—4·43	1·18	1	13	—3·6	...	...	0	0	0	0	0
Rajshahi ...	...	...	...	...	...	...	...	...	15·70	+4·57	2·80	2	10	—5.3	...	...	0	0	0	0	0
Sirajganj ...	86·9	...	93	25	78·8	...	74	2,13	10·17	—1·61	3·17	2	12	—4·1	4·1	...	0	0	0	0	0
Bogra ...	88·8	—0·4	94	25	79·3	+0·8	75	2, 3·	11·97	—0·86	4·68	2	10	—6·8	2·7	+0·7	6	0	0	0	0
Dinajpur ...	88·1	—1·1	96	24	78·2	—0·7	73	16	10·86	—4·61	2·63	2	16	—0·7	2·8	+0·3	1	0	0	0	0
Rangpur ...	...	...	...	...	...	...	...	...	22·51	+6·50	5·80	2	21	+6·0	...	...	0	0	0	0	0

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JULY 1951—*contd.*

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weathers Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (East)																					
Cox's Bazar ...	88·0	+2·7	93	24, 25	75·8	—0·6	72	14, 15, 16	24·44	—11·08	2·89	5	22	—1·0	4·9	+0·6	3	0	0	0	0
Chittagong ...	86·2	+0·2	95	24	76·7	0	74	2, 6, 13	22·78	—0·75	4·84	13	17	—1·9	4·7	—2·3	1	0	0	0	0
Comilla ...	84·7	—3·0	91	23	77·4	+0·3	70	6	35·86	+19·44	5·27	28	22	+3·2	7·2	+2·5	0	0	0	0	0
Narayanganj ...	88·5	+0·3	95	25	78·6	—0·3	74	3	16·20	+3·23	3·75	6	17	—0·7	4·8	+0·4	0	0	0	0	0
Brahmanbaria ...	87·8	—1·7	96	25	78·0	+2·2	74	3, 14	17·31	+6·00	5·03	3	13	—3·6	4·3	...	0	0	0	0	0
Srimangal ...	89·0	—1·3	96	24	76·5	+0·1	74	3, 14, 15	18·41	+4·50	2·76	1	21	+0·2	3·1	—0·1	6	0	0	0	0
Jymensingh ...	87·9	0·0	99	12	78·8	+0·5	75	2, 7	11·04	—4·98	3·90	2	11	—8·2	3·1	+0·8	0	0	0	0	0
EAST PAKISTAN (Deltaic)																					
Faridpur ...	85·0	—2·8	92	25	77·9	—0·6	73	14	15·21	+2·47	2·56	18	18	+0·2	6·5	+1·2	4	0	0	0	0
Barisal ...	87·7	+0·4	95	25	78·8	+0·4	75	14	**14·72	...	3·00	6	17	...	4·5	+1·5	0	0	0	0	0
Khulna ...	89·6	+1·7	93	24, 25	78·2	—0·4	72	14	18·99	+4·55	3·64	29	19	—2·1	4·0	+0·3	0	0	0	0	0
Jessore ...	91·3	+3·2	95	4, 24, 25	††78·2	+0·2	...	...	10·95	—1·27	3·88	4	18	+0·3	4·9	+2·3	2	0	0	0	0
Satkhira ...	89·6	+1·1	94	24, 25, 26	78·3	—0·1	73	14	11·87	—1·63	2·46	29	16	—2·4	3·6	+1·2	0	0	0	0	0
KASHMIR																					
Srinagar* ...																					
Gulmarg* ...																					
Pahalgam* ...																					
Uri* ...																					
Leh* ...																					
Skardu* ...																					
Gilgit* ...																					
Hisgar ...	71·1	...	80	1, 31	47.7	...	42	4 days	0.36	...	0.20	14	1	...	5.4	...	0	0	0	0	0
Jammu* ...																					
Kargil* ...																					
Kurez* ...																					
NORTH PUNJAB																					
Lahore ...	100·1	+0·5	111	11	79·8	—0·3	71	3, 4	6·60	+1·15	2·83	29	9	+3·1	3·4	+1·2	7	0	0	0	4
Sialkot ...	99·5	+2·1	110	1, 18	79·6	0·0	70	3, 14, 15	3·97	—4·38	0·91	2	8	—1·0	2·0	+0·7	7	0	0	0	2
Jhelum ...	100·9	...	110	1	78·5	...	72	3, 5, 14	2·50	...	0·99	3	6	...	2·5	...	13	0	0	0	0
Rawalpindi ...	100·9	+3·1	115	1	74·9	—2·2	69	19	3·38	—4·69	1·35	23	8	—0·8	2·3	+0·6	10	0	0	1	0
Jhushab ...	102·4	+0·2	111	11	81·2	—1·2	66	3	1·31	—1·59	0·70	3	2	—2·3	6·4	+1·1	2	0	0	0	1
Lyallpur ...	101·0	—0·5	109	10, 11	81·4	—1·3	72	3	1·03	—1·83	0·43	14	4	+0·2	2·7	—0·1	6	0	0	0	5
SOUTH PUNJAB																					
Montgomery ...	102·7	—0·2	111	10	82·0	—1·7	71	4	1·04	—1·38	0·96	4	1	—2·3	2·5	—2·3	2	0	0	0	1
Multan ...	105·5	+3·1	114	23	85·1	—0·4	73	15	*	...	*	...	*	...	3·8	+1·6	0	0	0	0	0
Mort Abbas ...	107·5	...	114	23	†	...	...	...	0·52	...	0·30	4	2	...	8·8	...	0	0	0	0	2
Bahawalpur ...	106·0	+2·7	112	23	84·9	+1·2	79	5	0·00	—2·44	0·00		0	—3·2	4·2	—0·3	0	0	0	0	0
Khanpur ...	108·7	+3·3	114	11, 23, 24	84·4	+1·3	80	12	0·00	—2·52	0·00	...	0	—2·9	6·6	—0·6	0	0	0	3	0
N.-W.F.P. (Upper)																					
Chakdara ...	98·3	...	107	1	73·0	...	67	14, 19	2·84	...	1·63	19	5	...	4·9	...	0	0	0	0	0
Peshawar ...	102·5	0.0	112	1	78·0	—2·2	71	4	0·41	—0·85	0·24	18	2	0·0	3·8	+1·8	8	0	0	0	3
Landikotal ...	94·9	...	104	1	73·6	...	63	4	0·45	...	0·17	4	2	...	4·1	...	7	0	0	1	1
N.-W.F.P. (Lower)																					
Bannu ...	102·0	—1·1	112	1	80·8	—1·7	71	7	1·20	—1·01	0·60	7	3	—0·2	3·5	...	0	0	0	0	5
Miranshah ...	96·7	+0·1	107	11	77·2	—1·9	67	14, 15, 24	1·75	+0·18	0·58	4	5	+1·7	†	...	1	0	0	0	0
D. I. Khan ...	†	...	†	...	†	...	†	...	0·83	—1·46	0·33	13	3	+0·2	2·4	+0·6	7	0	0	1	0

** Rain up to 25th. Raingauge out of order.

†† Extrapolated from Khulna.

* Data not available.

† Data rejected

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF JULY 1951—*concld.*

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hour	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less: Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN																					
BALUCHISTAN (North)																					
Fort Sandeman ...	99·6	+0·3	105	1, 12	76·3	+1·2	68	5, 26	0·23	—1.91	0·20	26	1	—2·8	4·2	+1·8	...	...	...	...	...
Hindubagh ...	94·8	...	99	1, 11	66·0	...	59	5, 23, 27	0·00	...	0·00	...	0	...	6·6	...	...	...	...	...	...
Loralai ...	95·3	...	102	12	68·1	...	61	4	0·36	—1.18	0·31	...	1	—1·9	3·7	...	6	...	...	...	...
Harnai ...	...	...	...	...	...	...	...	...	0·89	—2.21	0·72	14	2	—3·0	...	...	...	...	...	...	...
Sibi ...	110·8	+3·0	117	23, 24	87·7	+0·5	75	26	1·17	—0.23	1·13	26	1	—1·6	5·6	+0·4	...	...	...	...	...
Quetta ...	93·7	...	98	9, 26	62·2	...	52	4	0·00	...	0·00	...	0	...	4·1	+1·7	...	...	...	...	...
Quetta (Samungli)	94·8	...	99	11, 12	62·3	...	53	4	0·00	...	0·00	...	0	...	5·6	...	...	...	...	...	...
Chaman ...	98·9	—2·2	104	11	74·1	—2·2	63	4	0·00	—0.07	0·00	...	0	—0·2	7·0	+2·0	...	...	...	...	...
Nushki ...	105·5	...	111	10	80·7	...	72	2, 3	0·00	...	0·00	...	0	...	7·4	...	...	...	...	...	2
Kalat ...	89·8	—1·3	93	26,27 4 days	59·0	—3·2	48	4	0·10	—0.50	0·06	...	0	—1·5	4·7	+0·7	...	...	...	...	...
Dalbandin ...	106·6	—2·1	112	28	74·4	—1·8	67	5, 6	0·00	—0.12	0·00	...	0	—0·4	4·2	—0·5	...	...	...	...	...
Nokkundi ...	108·3	—1·1	115	11	81·0	—2·6	66	31 1	0·00	0.00	0·00	...	0	0·0	10·6	—1·8	...	...	...	...	...
BALUCHISTAN (South)																					
Lasbela (R) ...																					
Ormara ...	90·1	—0·1	101	25	81·4	+0·2	78	27	0·00	—0.65	0·00	...	0	—1·3	11·3	+2·7	...	...	...	...	6
Pasni ...	90·9	—0·3	101	22	78·6	—0·3	70	10	0·62	+0.15	0·50	26	1	+0·4	8·6	+2·8	1	...	...	...	...
Turbat ...	109·7	...	118	1, 23	83·4	...	79	11, 16	0·00	...	0·00	...	0	...	5·7	...	...	...	...	...	10
Panjgur ...	101·1	—2·2	106	18, 24	73·3	—3·0	67	1	0·00	—0.79	0·00	...	0	—1·3	5·0	+0·1	0	0	0	0	0
SIND (Upper)																					
Reti ...	111·2	...	117	23	84·3	...	80	8, 10	0·00	...	0·00	...	0	...	8·7	...	...	...	...	...	6
Jacobabad ...	109·5	+1·5	116	12	84·5	—0·5	77	14	0·23	—0.72	0·19	26	1	—0·5	8·3	+1·8	2	...	...	...	2
Sukkur ...	108·3	+4·0	117	23	82·3	—0·7	79	7, 9	0·00	—1.44	0·00	...	0	—1·7	2·1	—2·3	...	...	...	...	...
Pad Idan ...	109·2	...	117	23	82·4	...	80	4 days	0·00	...	0·00	...	0	...	7·5	...	...	...	...	...	...
SIND (Lower)																					
Umarkot ...	102·8	...	109	26	80·4	...	77	28	1·30	...	0·51	28	0	...	(d) 10·8	...	...	...	...	...	2
Chhor ...	100·8	...	110	22	80·8	...	77	7, 23	1·12	...	0·67	22	2	...	10·4	...	7	0	0	4	3
Hyderabad ...	102·7	+3·4	114	23	81·7	+0·3	79	9, 19	0·40	—2.58	0·20	25	2	—0·9	8·7	—0·6	...	...	...	...	...
Karachi(Air Port) †	94·0	...	107	22	81·5	...	77	25	1·57	...	1·51	25	0	...	13·4	...	2	...	...	...	6
Karachi(Manora)...	89·4	+0·9	98	25	81·6	+0·5	78	19	0·52	—2.68	0·47	25	1	—1·5	9·3	—1·8	1	...	...	6	...
Badin ...	99·7	+4·8	110	22	80·9	—0·3	78	23	6·22	+2.25	3·94	28	4	+0·2	(a) 8·8	...	3	...	...	...	...
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN																					
Murree ...	76·9	+0·7	89	1	59·5	+0·6	52	5	7·69	—4.71	1·44	2	11	—2·3	5·8	+2·1	11	2	6	0	0
Cherat ...	(e) 92·1	+2·4	104	1	70·4	—1·3	61	3, 4	1·36	—2.28	0·56	18	4	—0·8	7·3	+2·3	3	0	1	0	0
Drosh ...	93·4	—3·3	101	1, 12	70·8	—2·7	61	19	0·84	+0.24	0·40	19	2	+0·5	5·0	+0·6	12	0	0	0	0
Parachinar ...	86·0	—1·1	97	1	64·4	—2·0	54	4	3·59	+0.07	1·36	4	9	+2·1	3·5	+1·3	14	0	0	0	0
Wana ...	90·4	—1·4	103	1, 2	71·4	+0·1	61	5	0·82	—0.91	0·45	29	3	—1·0	0·8	...	0	0	0	0	1
AFGHANISTAN																					
Jalalabad ...	101·8	...	111	11	76·8	...	67	4	0·51	...	0·51	4	1	...	2·7	...	1	0	0	0	0
Kabul ...	89·5	—2·5	95	17	57·5	—3·1	52	5	0·23	+0.16	0·21	20	1	+0·7	2·7	+0·8	3	0	0	0	0
Kandahar ...	100·4	...	105	4 days	60·5	...	52	3	0·00	...	0·00	...	0	...	1·0	...	0	0	0	0	0
IRAN																					
Jask ...	94·9	—1·3	103	13	81·2	—4·0	70	1, 2	0·00	—0.02	0·00	...	0	0·0	10·4	+2·0	0	0	0	9	0
ARABIA																					
Muscat ...	93·5	—1·6	106	1	85·3	—1·9	80	22	0·00	—0.01	0·00	...	0	0·0	3·8	+0·7	0	0	0	0	0
Kuwait* ...	106·3	...	115	3	(c) 88·7	...	84	16	0·00	...	0·00	...	0	...	5·4	...	0	0	0	0	0

(R) Register not received.
(a) Mean of 30 days.
(c) Mean of 28 days.
(d) Mean of 27 days.
(e) Mean of 19 days.
* Observations recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T.
(†) Same observatory was previously designated as "Karachi (Drigh Road)".

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PAKISTAN WEATHER REVIEW, ~~1947~~ 1951

Monthly Weather Report

August

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Chief Features :—(1) One depression which formed in the north Bay of Bengal on the 3rd.

(2) Active monsoon in West Pakistan during the first fortnight due to a marked trough of low which originated in the north west angle of the Bay and moved westwards across India.

(3) Vigorous monsoon in East Pakistan on the 22nd and 23rd.

West Pakistan.—A well marked trough of low appeared in the northwest angle of the Bay on the 6th moved inland on the next day and was lying as an extensive low from Gujrat to Central Provinces on the 8th causing inversion of monsoon into West Pakistan. It moved into Cutch and lower Sind by the next day and moving northnorth-westwards across north Rajputana and the adjoining areas of West Pakistan merged into the seasonal low by the 11th. In its association local to fairly widespread rain/ hundershowers occurred from the 9th to 11th and in the Punjab, the North-West Frontier Province and east Baluchistan between the 12th and 14th.

Low pressure waves which were moving eastwards across the extreme north of West Pakistan during the month were responsible for intermittent spells of wet weather and thunderstorm activity over the northern region of West Pakistan.

Some of the noteworthy amounts of rainfall recorded during the month were :—Bannu and Rawalpindi 2″ each and Murree 1-1/2″ on the 1st ; Cherat and Rawalpindi 1″ each on the 2nd ; Lahore 1″ on the 2nd and 3rd ; and Jhelum 1″ on the 2nd and 4th ; Lyallpur 3″, Sialkot 2″, Parachinar 1-1/2″ and Jacobabad 1″ on the 9th ; Rawalpindi 4″, Sibi, Las Bela, Reti and Karachi (Airport) 1″ each on the 11th ; Landi Kotal and Fort Sandeman 1-1/2″ each and Sialkot 1″ on the 12th ; Sialkot 4″, Miranshah 3″, Lyallpur and Fort Sandeman 1″ each on the 13th ; Jhelum 3″, Chakdara 2″, Murree and Rawalpindi 1″ each on the 17th ; Bahawalpur 1-1/2″ on the 18th ; Murree 1-1/2″ and Jhelum 1″ on the 25th ; Murree 2″ on the 31st.

The mean actual rainfall during the month was in slight excess over north Baluchistan and normal over south Baluchistan. It was in slight defect over the north Punjab and upper Sind, in moderate defect over the North-West Frontier Province and in large defect over the south Punjab and lower Sind. Averaged over the region as a whole, the rainfall was in slight defect. The mean maximum and minimum temperatures and relative humidity were normal over the region except the relative humidity over upper Sind being in excess. Skies were more clouded than usual over upper Sind but less clouded over lower Sind, north Baluchistan and the lower North-West Frontier Province and clouded as usual over the Punjab, south Baluchistan and the upper North-West Frontier Province.

East Pakistan.—A depression forming in the north Bay of Bengal with its central region within one degree latitude 18°N and longitude 88°E on the morning of the 3rd moved inland across Orissa coast on the night of the 4th and became diffused thereafter. It was followed by three well marked troughs of low which appeared in the north Bay of Bengal during the rest of the month and moved inland into the Indian region. Monsoon remained active throughout the month and copious amounts of rainfall were recorded on the 22nd and 23rd.

Some of the noteworthy amounts of rainfall recorded during the month were :—Chittagong 3″ on the 1st ; and Cox's Bazar 3″ on the 6th, 7th, 14th and 15th ; Comilla 5″ and Srimangal 4″ on the 11th ; Chittagong 8″, Jessore and Sirajganj 4″ each and Faridpur 3″ on the 22nd ; Chittagong 9″, Dinajpur 5″, Rangpur 4″, Faridpur, Comilla, Sirajganj and Satkhira 3″ each on the 23rd ; Cox's Bazar and Chittagong 3″ each on the 24th.

The mean actual rainfall during the month was normal over the Eastern sub-division, in moderate defect over the Northern and Deltaic sub-divisions. Averaged over the region as a whole, the rainfall was in slight defect. The mean maximum and minimum temperatures and relative humidity were normal. Skies were more clouded than usual over the Deltaic subdivision but, clouded as usual elsewhere.

Table I contains the Divisional and Sub-Divisional means of rainfall, temperature, humidity and cloud for the 5 chief Divisions and 12 Sub-Divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS—AUGUST, 1951.

Division	~~RAINFALL~~ PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	Inches	Inches	Inches		°	°	mb.	%	
East Pakistan	12·74	14·29	—1·55	—11	+1·1	+1·4	+1·0	+1	+0·4
Mean of East Pakistan	12·74	14·29	—1·55	—11	+1·1	+1·4	+1·0	+1	+0·4
Punjab	3·59	4·30	—0·71	—12	+0·3	—0·2	—0·3	—1	+0·2
N.-W. F. P.	1·05	1·81	—0·76	—42	—0·7	—0·6	+0·3	+2	—0·9
Baluchistan	0·79	0·68	+0·11	+16	—0·8	—1·3	—0·7	—1	—0·2
Sind	0·99	1·58	—0·59	—37	+1·6	0·0	—0·1	+2	—0·3
Mean of West Pakistan excluding Baluchistan	2·27	2·55	—0·28	—11	+0·6	—0·2	—0·1	+1	—0·2
SUB-DIVISION									
East Pakistan (North	9·37	12·09	—2·72	—22	+1·5	+1·8	+1·3	—2	—0·1
East Pakistan (East)	18·16	17·29	+0·87	+4	+0·8	+1·3	+0·8	0	+0·5
East Pakistan (Deltaic)	8·98	12·69	—3·71	—29	+1·4	+1·3	+1·2	0	+0·4
Kashmir*									
North Punjab	5·44	6·14	—0·70	—11	—0·5	—0·3	+0·1	0	—0·4
South Punjab	1·29	1·99	—0·70	—35	+1·3	0·0	—0·9	—2	+0·1
N.-W. F. P. (Upper)	1·14	2·03	—0·89	—44	—1·1	—1·4	+0·3	+2	—0·4
N.-W. F. P. (Lower)	1·01	1·73	—0·72	—42	—0·5	—0·3	+0·3	+2	—1·0
Baluchistan (North)	1·02	0·86	+0·16	+19	—0·8	—1·3	—0·3	+1	—0·5
Baluchistan (South)	0·20	0·21	—0·01	—5	—0·7	—1·2	—1·3	—5	+0·3
Sind (Upper)	0·78	1·00	—0·22	—22	+1·8	—0·6	—1·5	+7	+0·9
Sind (Lower)	0·80	1·97	—1·17	—59	+1·4	+0·4	+0·8	0	—1·1

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1951.

Sub-Division and Station	Hours of Observation	Height of bar cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. and M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	mbs.	mbs.	%	%	Octas										
EAST PAKISTAN North																							
Pabna	0300	...	...	...	...	84·4	80·7	79·0	34·0	+0·7	85	0	...	...									
Sirajganj	0000	49	999·8	...	1001·5	80·7	79·7	79·1	34·5	...	96	...	6·1	...	0	0	5	7	0	0	0	1	18
	0300	...	1000·9	...	1002·6	84·0	80·6	79·0	34·0	...	86	...	7·0	...	0	0	7	13	3	2	0	0	6
	1200	...	997·4	...	999·1	85·7	81·4	79·5	34·7	...	82	...	6·7	...	0	0	2	12	0	0	0	0	17
Bogra	0000	65	999·4	...	1001·6	80·6	79·0	78·4	33·7	...	93	...	6·5	...	0	0	3	3	2	0	0	0	23
	0300	63	1000·3	—0·2	1002·4	83·8	80·6	79·1	34·8	+2·6	86	—1	6·3	+0·2	0	1	12	5	5	6	0	0	2
	1200	63	997·1	...	999·2	85·8	80·4	77·8	33·1	...	78	...	6·0	...	0	0	11	4	2	2	4	0	8
Dinajpur	0000	123	998·1	...	1002·3	80·6	79·2	78·6	33·7	...	93	...	5·0	...	2	2	3	3	0	0	0	0	28
	0300	...	999·4	+1·2	1003·6	84·9	80·4	78·5	33·5	+0·5	81	—6	5·6	—0·3	1	0	10	1	0	0	0	0	19
	1200	...	996·3	...	1000·3	87·1	81·3	78·7	33·4	...	76	...	4·9	...	0	1	11	1	1	0	0	0	17
EAST PAKISTAN East																							
Cox's Bazar	0000	38	1002·6	...	1003·9	77·6	76·5	76·1	31·3	...	95	...	6·2	...	0	0	1	8	8	1	0	0	13
	0300	...	1003·5	+0·6	1004·8	81·9	78·7	77·7	32·5	+0·8	87	—1	5·8	—0·4	0	0	4	10	15	1	0	0	1
	1200	...	1001·2	...	1002·5	81·5	78·6	77·3	31·4	...	87	...	6·1	...	0	0	0	8	22	1	0	0	9
Chittagong	0300	87	1001·2	—0·1	1004·2	82·0	78·1	76·3	30·9	—0·4	83	—3	6·2	—0·1	0	0	4	20	6	0	1	0	9
	1200	...	998·4	...	1001·4	82·1	78·5	77·2	31·7	...	85	...	6·5	...	0	0	0	8	17	5	1	0	8
Noakhali (majdee) ...	0000	22	*	...	*	80·0	78·0	77·4	31·9	...	91	...	6·5 (c)	...	*	*	*	*	*	*	*	*	*
	0300	...	*	...	*	82·0	79·3	78·0	33·3	+0·7	89	+2	6·5 (b)	+1·1	*	*	*	*	*	*	*	*	*
	1200	...	*	...	*	84·3	80·1	77·1	33·2	...	83	...	6·0 (a)	...	*	*	*	*	*	*	*	*	*
Comilla	0000	29	1001·4	...	1002·4	78·8	77·6	77·1	32·3	...	95	...	7·0	...	0	0	6	16	6	0	0	0	1
	0300	...	1003·0	+0·1	1004·0	82·5	78·8	78·0	32·8	+0·7	85	+1	6·5	+0·9	0	2	1	19	8	0	0	0	1
	1200	...	999·5	...	1000·7	86·0	81·0	78·8	33·9	...	80	...	6·3	...	0	0	0	14	14	1	0	1	1
Narayanganj	0000	26	1000·6	...	1001·5	81·3	79·1	78·3	32·9	...	91	...	7·2	...	0	0	11	8	5	4	0	0	1
	0300	...	1001·9	—0·4	1002·8	85·2	80·5	78·8	33·5	+0·7	81	—5	7·6	+0·7	0	0	6	13	8	3	0	0	1
	1200	...	998·9	...	999·8	85·8	80·3	78·6	33·1	...	78	...	6·6	...	0	0	0	9	18	1	1	0	1
Brahmanbaria	0000	32	1001·8	...	1002·9	80·1	78·3	77·8	31·9	...	92	...	5·8	...	0	0	5	11	9	0	0	0	1
	0300	...	1002·7	...	1003·8	84·4	80·0	77·8	32·4	+1·8	82	+2	5·6	...	0	0	2	15	10	2	0	0	1
	1200	...	999·6	...	1000·7	85·3	80·9	79·4	33·5	...	82	...	4·7	...	0	0	2	5	14	2	1	0	1
Srimangal	0000	69	1000·7	...	1003·0	77·3	76·5	75·7	30·2	...	95	...	7·2	...	0	1	0	2	4	1	0	0	2
	0300	...	1001·9	+0·2	1004·2	81·8	79·1	78·1	33·3	+1·5	89	+4	6·6	+1·3	2	1	3	6	7	1	1	0	1
	1200	...	998·2	...	1000·5	84·4	80·7	79·2	34·0	...	85	...	6·4	...	4	0	1	6	4	2	2	1	1
Mymensingh	0000	62	999·8	...	1002·0	80·3	79·2	78·9	33·4	...	95	...	7·0	...	0	0	8	1	0	0	0	0	2
	0300	...	1001·1	—0·3	1003.0	83·3	80·2	71·3	33·6	+0·9	86	—1	7·1	+0·3	0	0	15	0	0	0	0	0	1
	1200	...	998·1	...	1000·2	86·1	81·0	79·0	33·9	...	79	...	6·2	...	0	0	6	0	0	0	0	0	2
EAST PAKISTAN Deltaic																							
Faridpur...	0000	46	999·7	...	1001·3	80·3	79·2	78·9	33·4	...	96	...	6·5	...	0	9	9	1	3	0	0	0	1
	0300	...	1001·2	—0·1	1002·7	82·1	80·4	79·0	34·9	+1·6	93	+7	7·2	+1·2	0	8	6	9	5	1	0	1	1
	1200	...	998·5	...	1000·5	84·4	80·7	79·1	34·0	...	85	...	6·5	...	0	6	8	5	11	1	0	0	1
Barisal	0000	11	1001·2	...	1001·6	80·2	79·1	78·5	33·4	...	96	...	7·5	...	0	0	7	8	6	4	0	0	1
	0300	...	1002·6	+0·1	1003·0	84·3	80·8	79·3	34·0	+1·2	85	—1	7·3	+1·1	0	2	5	12	6	3	0	0	2
	1200	...	999·7	...	1000·1	84·2	80·1	78·5	33·2	...	83	...	7·0	...	0	0	0	13	15	1	0	0	1
Khulna	0000	16	1000·8	...	1001·3	80·4	79·2	78·9	33·4	...	96	...	5·8	...	0	2	5	9	0	2	0	0	12
	0300	...	1002·1	+0·2	1002·7	84·7	80·3	78·7	33·5	+0·9	81	—3	5·4	—1·4	1	1	10	8	3	0	1	3	2
	1200	...	999·3	...	999·9	84·5	80·5	78·6	34·3	...	83	...	5·0	...	2	1	3	15	5	3	0	0	1

* Data rejected.

(a) Mean for 30 days.

(b) Mean for 29 days.

(c) Mean for 26 days.

Observations recorded from a distant site by P. B. O. staff.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1951.

Sub-Division and Station.	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure			Mean temperature of the air and humidity							Total Cloud amount		Wind direction. Number of observations from :—								
			Stn. level reduced to standard Temp. and gravity	Departure from normal	Reduced to standard emp. and M.S.L. or nearest GPKM level	Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	mbs.	mbs.			Octas										
Jessore	0000	26	1060·2	...	1001·1	79·8	78·8	78·7	33·4	...	96	...	5·6	...	0	3	3	7	6	0	1	0	11
	0300	...	1001·3	—0.3	1002·2	85·1	81·1	79·3	34·3	+0·9	83	—3	6·5	÷0·2	0	1	7	6	7	5	0	0	5
	1200	...	998·9	...	999·7	84·6	81·0	79·3	33·1	...	85	...	5·6	...	0	0	7	7	12	3	0	0	2
Satkhira	0000	16	1000·1	...	1000·7	80·8	79·6	79·1	34·5	...	95	...	6·7	...	*	*	*	*	*	*	*	*	*
	0300	...	1002·1	+0·6	1002·6	83·9	81·0	79·5	34·8	+1·2	87	+1	6·8	+1·0	*	*	*	*	*	*	*	*	*
	1200	...	999·4	...	999·9	85·3	81·0	78·9	33·5	...	82	...	7·0	...	*	*	*	*	*	*	*	*	*
KASHMIR																							
Srinagar*	0000	5,205																					
	0300																						
	1200																						
Gulmarg*	0000	8,709																					
	0300																						
	1200																						
Dras*	0000	10,059																					
	0300																						
	1200																						
Leh*	0000	11,529																					
	0300																						
	1200																						
Skardu*	0000	7,505																					
	0300																						
	1200																						
Gilgit*	0000	4,890																					
	0300																						
	1200																						
Misgar	0000	10,190	697·4	...	700·9	53·3	43·2	32·8	6·3	...	44	...	3·1	...	0	0	2	0	0	0	5	0	24
	0300		697·6	...	701·1	57·5	46·3	36·2	7·2	...	45	...	2·7	...	0	0	4	0	0	0	2	0	25
	1200		694·7	...	698·1	71·9	51·4	33·8	6·6	...	25	...	3.4	...	0	0	22	0	0	0	4	0	5
NORTH PUNJAB																							
Lahore	0000	702	975·5	...	999·3	80·0	77·1	75·6	30·5	...	87	...	3.4	...	0	3	1	4	1	0	1	0	21
	0300		976·9	+0·8	1000·6	84·4	78·4	75·7	30·4	+0·6	75	+2	4.3	+1.2	1	1	2	8	0	3	3	1	12
	1200		974·4	...	997·7	93·0	80·8	75·4	30·4	...	58	...	3.4	...	0	8	1	7	2	2	2	3	6
Sialkot	0000	830	971·2	...	999·3	80·4	77·3	76·1	30·6	...	87	...	4.1	...	0	7	6	2	0	0	2	1	13
	0300		973·1	+0·8	1001·1	83·9	78·8	76·8	31·4	+0·5	79	—5	4.3	+0.9	0	7	2	4	2	0	0	3	13
	1200		970·1	...	997·5	91·9	80·2	77·6	29·7	...	59	...	3.7	...	0	6	0	4	0	1	1	7	12
Jhelum	0000	765	973·7	...	999·5	79·6	77·3	76·2	30·2	...	90	...	4.3	...	0	0	1	3	0	0	1	3	23
	0300	...	975·1	...	1000·9	81·9	77·4	75·3	30·1	...	81	...	4.2	...	0	1	0	6	3	2	1	1	17
	1200		972·6	...	997·8	91·9	81·3	76·9	31·6	...	63	...	3.1	...	0	0	0	2	3	7	0	1	18
Rawalpindi	0000	1,676	944·1	...	1000·4	76·1	73·3	72·1	26·9	...	86	...	3.5	...	1	0	0	0	0	0	1	0	29
	0300		945·0	+0·6	1000·9	80·2	74·1	71·3	26·3	—1·5	75	+1	3.8	+0.4	0	0	0	1	0	1	2	0	27
	1200		943·1	...	997·9	90·0	77·9	72·7	27·7	...	58	...	3.2	...	0	0	2	2	2	0	4	1	20
Khushab	0000	616	978·2	...	999·1	82·8	77·6	75·3	30·0	...	79	...	2.2	...	1	6	9	7	0	0	0	1	7
	0300		979·4	+0·3	1000·1	86·1	78·4	75·1	29·7	—0·1	70	0	2.5	+0.1	1	5	14	4	1	3	1	2	0
	1200		976·5	...	996·7	97·6	82·0	75·4	30·2	...	50	...	1.6	...	0	2	9	11	5	2	1	1	0
Lyallpur	0000	605	977·9	...	998·4	81·8	77·7	75·5	30·6	...	83	...	2.7	...	0	4	3	4	7	2	0	0	11
	0300		979·0	0·0	999·5	84·3	78·2	75·0	30·3	+1·2	75	+4	2.6	—0.8	1	2	3	5	6	2	1	1	10
	1200		976·9	...	996·9	95·0	80·5	73·6	28·9	...	51	...	3.0	...	1	3	1	5	4	2	0	3	12

* Data not available.

(a) Mean for 30 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. and M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction Number of observations from :— N	NE	E	SE	S	S W	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT.	FT.	ML.	Mb.	Mb.	°F	°F	°F	mbs.	mbs.	%	%	Octas.										
SOUTH PUNJAB																							
Montgomery	0000	558	979·8	...	998·6	82·9	77·3	74·9	29·8	...	77	...	2·0	...	0	1	0	0	0	7	1	0	22
	0300		981·1	+0·5	999·9	86·3	78·4	74·5	29·6	—1·5	68	—7	3·0	+1·1	1	2	2	7	3	6	0	0	10
Multan	1200		978·5		996·8	96·9	80·3	72·5	27·7		47		3·2		0	1	0	4	1	8	2	0	15
	0300	413	985·6	+0·6	999·6	86·6	78·2	74·4	29·1	—2·6	68	—5	1.5	—0.3	3	2	0	1	13	9	0	0	3
	1200		983·2	...	996·8	99·0	80·5	71·8	27·1	...	44	...	2.5	...	2	1	2	1	10	5	1	2	7
Fort Abbas	0000	475	981·0	...	997·1	80·9	70·8	63·4	21·2	...	59	...	1.7	...	0	3	0	5	0	22	0	1	0
	0300		982·0	...	997·9	86·8	75·3	69·5	24·7	...	57	...	1·0	...	0	4	1	5	0	21	0	0	0
	1200		981·3	...	997·0	97·4	...	...	...	...	...	...	2.8	...	0	4	0	6	0	20	0	0	1
Bahawalpur																							
	0300	384	987·0	+0·7	1000·1	85·0	78·4	75.6	30·2	—1·2	73	+1	1.8	—0.4	0	1	3	2	8	15	0	1	1
	1200		984·3	...	996·7	98·8	81·9	74·5	29·5	...	46	...	2.3	...	1	1	0	0	1	12	3	0	13
Khanpur																							
	0300	297	989·6	+0·3	999·7	85·2	78·1	75·1	29·6	+1·6	72	+3	2.0	—0·2	0	2	1	1	12	14	1	0	0
	1200		986·5 (a)	...	996·3 (a)	101·2	81·9	73·5	28·4	...	41	...	2.3	...	3	1	2	1	10	8	2	4	0
N.-W. F. P. (Upper)																							
Chakdara	0000	2,197	925·8	...	1000·0	75·1	70·5	68·1	23·7	...	79	...	2·6	...	7	0	1	3	7	1	1	9	2
	0300		926·7	...	1000·1	79·5	72·2	68·5	24·0	...	68	...	1·5	...	8	2	0	2	1	1	2	3	12
	1200		924·3	...	996·3	90·3	77·2	71·4	26·6	...	54	...	1·3	...	3	0	0	6	5	6	3	3	5
Peshawar	0000	1,175	959·8	~~29·6~~	999·3	79·2	74·3	71·5	26·7	...	78	...	2·7	...	5	0	0	0	1	0	1	10	14
	0300		961·2	+0·6	1000·5	83·6	76·0	72·4	27·2	+0·3	69	+2	2·8	—0·4	11	3	0	0	0	0	1	5	11
	1200		958·0	...	996·5	93·3	77·2	69·0	24·6	...	46	...	3·3	...	6	18	1	0	1	2	0	2	1
Landikotal	0000	3,503	885·1	...	889·9	73·3	69·2	67·0	22·7	...	81	...	3·0	...	0	8	1	1	0	0	0	0	21
	0300		886·2	...	890·9	79·4	71·6	67·7	23·4	...	66	...	2·3	...	1	10	0	1	0	0	0	0	19
	1200		883·9	...	888·6	86·7	73·8	68·0	23·1	...	53	...	3·3	...	0	10	2	17	0	0	0	1	1
N.-W. F. P. (Lower)																							
Bannu	0000	1,264	956·4	...	998·8	82·5	75·4	72·1	27·1	...	71	...	0·9	...	3	1	0	0	1	0	2	0	24
	0300		957·5	...	999·4	85·6	77·2	73·0	28·1	+0·8	67	+2	1·0	—1·1	0	5	2	2	1	0	1	2	18
	1200		955·3	...	996·6	96·9	78·0	67·6	24·1	...	40	...	1·8	...	4	1	4	11	3	0	0	2	6
Miranshah	0000	3,026	899·9	...	889·5	79·1	69·7	64·6	21·0	...	61	...	1·6	...	1	3	9	13	3	1	0	1	0
	0300		901·1	...	891·1	81·1	72·5	68·6	23·8	+1·1	66	+5	1·2	—1·0	0	1	2	2	0	0	0	0	26
	1200		899·0	...	889·0	91·3	74·3	67·3	22·0	...	44	...	3·6	...	0	6	14	9	0	1	0	0	1
D. I. Khan	0000	570	979·5	...	998·8	82·6	77·6	74·9	30·1	...	77	...	0·5	...	1	19	5	0	1	0	0	0	5
	0300		980·5	+0·8	999·8	83·5	78·5	74·7	30·1	—0·9	72	—1	0·9	—0·9	2	18	6	1	0	0	0	0	4
	1200		977·8 (a)	...	996·4 (a)	99·4 (a)	80·5 (a)	73·8 (a)	26·9 (a)	...	41 (a)	...	1·0 (a)	...	2 (a)	10	5	5	1	1	0	0	6
BALUCHISTAN (North)																							
Fort Sandeman																							
	0300	4,614	853·5	+0·7	891·5	77·6	66·8	61·3	18·4	—1·5	54	—2	0·6	—0·9	0	1	0	0	0	1	0	0	29
	1200		851·5	...	888·7	92·4	65·0	39·1	17·6	...	54	...	2·0	...	0	4	1	4	1	5	2	1	13
Hindubagh	0000	5,909	815·2	...	791·2	68·4	55·2	44·5	9·2	...	44	...	0·6	...	0	0	1	0	0	7	12	3	8
	0300		815·9	...	792·1	76·6	61·0	49·9	11·3	...	40	...	0·6	...	0	0	3	0	2	15	9	1	1
	1200		813·5	...	789·6	90·5	62·9	41·8	7·2	...	21	...	1·8	...	0	0	4	1	0	13	12	1	0
Loralai	0000	4,699	849·5	...	890·8	67·4	60·9	55·7	15·7	...	68	...	1·0	...	0	0	0	1	0	4	1	0	25
	0300		850·5	...	891·1	75·4	65·3	58·7	17·3	...	56	...	0·9	...	0	3	1	2	1	4	5	1	14
	1200	...	848·3	...	887·5	88·5	74·1	67·3	22.7	...	49	...	2·3	...	0	1	0	21	3	3	0	0	3
Sibi	0000	441	981·7	...	996·0	87·8	75·8	69·6	25·2	...	55	...	0·8	...	0	0	0	6	0	0	0	0	25
	0300		983·8	+0·4	997·8	88·6	77·5	71·6	27·1	0·0	59	—1	1·2	—0·2	0	1	0	10	0	4	0	1	15
	1200		981·1	...	995·2	105·6	77·8	60·8	19·4	...	25	...	1·2	...	0 (a)	1	1	6	2	17	0	0	3

(a) Mean of 30 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure			Mean temperature of the air and humidity							Total Cloud amount		Wind direction Number of observations from :—								
			Stn. level reduced to standard temp. and gravity	Departure from normal	Reduced to standard temp. and M.S.L. or nearest GPKM level	Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	mb.	°F	°F	°F	mbs.	m s.	%	%	Octas										
Quetta	0000	5,490																					
	0300		827·0	—0·7	792·3	69·7	59·9	52·9	13·8	—1·1	56	0	0·6	—0·4	0	1	0	3	6	0	1	2	18
	1200		824·7	...	791·5	89·5	63·0	42·5	10·6	...	22	...	1·9	...	5	2	1	1	2	2	6	11	1
Quetta (Samungli)	0000	5,253	835·5	...	793·1	61·6	54·4	48·9	11·8	...	64	...	0·7	...	0	1	12	11	0	0	1	0	6
	0300		836·5	...	794·7	71·0	59·7	52·0	12·9	...	52	...	0·6	...	0	3	1	11	1	0	1	2	12
	1200		833·8	...	793·6	90·3	71·3	61·6	18·2	...	40	...	2·0	...	1	0	1	4	0	6	11	8	0
Chaman	0000	4,311	861·4	...	890·6	74·4	58·6	43·5	10·1	...	35	...	0·0	...	0	0	14	11	4	1	0	0	1
	0300		862·6	+1·0	891·4	80·1	63·0	48·8	12·6	+1·1	36	+4	0·2	—0·4	0	0	5	5	6	13	1	1	0
	1200		860·4	...	888·1	94·4	73·2	58·3	18·9	...	34	...	0·0	...	1	0	0	0	1	10	11	8	0
Nushki	0000	3,412	894·1	...	895·8	80·9	63·0	49·1	24·6	...	67	...	1·2 (b)	...	2 (a)	4	19	1	0	1	0	0	3
	0300		895·3	...	896·9	85·1	65·5	51·6	13·5	...	33	...	1·3 (d)	...	3	1	11	4	0	2	0	3	7
	1200		891·9	...	893·6	98·6	71·7	51·5	15·6	...	25	...	1·3 (b)		1	1	0	1	0	4	14	9	1
Kalat	0000	6,616	795·8	...	793·5	58·5	49·4	40·4	8·8	...	53	...	0·0	...	0	0	0	0	11	0	0	0	20
	0300		796·7	+1·3	794·2	64·9	54·0	45·1	10·3	—0·6	49	+3	0·0	—1·4	0	1	1	2	21	0	0	0	6
	1200		795·1	...	792·6	84·0	65·9	54·4	15·2	...	39	...	0·5	...	5	0	0	1	3	2	4	14	2
Dalbandin	0000	2,785	907·8	...	890·1	75·5	59·1	43·9	10·4	...	33	...	0·6	...	1	1	0	1	0	1	5	5	17
	0300		909·0	+1·0	891·3	77·7	59·9	43·8	10·1	—1·9	31	—3	1·1	+0·2	0	3	0	1	2	5	7	3	10
	1200		906·2	...	889·1	103·2	72·1	52·3	15·4	...	20	...	1·1	...	1	1	1	4	1	13	4	4	2
Nokundi	0000	2,229	925·2	...	998·0	81·9	60·0	40·1	8·7	...	2·3	...	0·2	...	13	2	0	0	0	0	2	14	0
	0300		926·4	...	999·4	83·5	66·3	53·7	14·5	+0·4	39	+8	0·6	—0·2	10	2	1	1	2	0	0	12	3
	1200		923·1	...	993·8	102·8	76·4	61·6	20·1	...	28	...	0·6	...	14	0	0	0	0	0	0	15	2
BALUCHISTAN (South)																							
Lasbela (R)	0000	292																					
	0300																						
	1200																						
Ormara	0000	15	1000·7	...	1001.2	79·7	78·3	77·9	32·0	...	93	...	6·5	...	0	0	1	0	0	13	13	0	4
	0300		1001·6	...	1002.1	80·6	78·6	74·5	32·4	+3·3	91	+5	6·0	—0·2	0	0	2	0	0	12	14	1	2
	1200		999·3	...	999.9	85·0	80·3	78·5	33·3	...	80	...	2·2	...	0	0	1	1	1	16	12	0	0
Pasni	0000	10	1001·5	...	1001·8	78·1	75·5	74·5	28·9	...	89	...	6·6	...	0	0	2	3	3	5	12	0	6
	0300		1002·3	+1·0	1002·7	79·8	75·9	74·6	28·7	—1·1	83	—4	6·2	+0·8	1	2	4	3	1	8	7	2	3
	1200		999·6	...	999·9	85·6	77·7	74·4	28·6	...	68	...	2·1	...	0	0	1	1	2	25	2	0	0
Turbat	0000	510	985·1	...	1002·3	81·6	77·1	74·5	28·6	...	80	...	5·0	...	0	1	0	0	9	7	4	0	10
	0300		986·3	...	1003·3	85·3	78·6	74·6	30·0	...	73	...	5·3	...	0	1	0	1	4	7	4	1	13
	1200		982·6	...	999·2	100·6	85·4	78·0	35·0	...	52	...	1·5	...	0	3	1	1	7	12	6	1	0
Panjgur	0000	3,177	897·1	...	891·6	71·8	61·9	49·7	14·9	...	56	...	2·6	...	4	7	1	1	1	7	3	4	3
	0300		897·7	+1·4	892·2	75·8	63·0	49·6	14·9	—6·1	47	—15	1·7	+0·3	1	7	1	0	2	7	2	7	4
	1200		895·5	...	890·4	97·0	65·0	33·4	9·2	...	15	...	2·1		1	0	0	0	0	7	1	22	0
SIND (Upper)																							
Reti	0000	280	990·1	...	999·7	82·4	79·0	77·7	32·3	...	85	...	0·8	...	3 (a)	0	0	1	17	4	3	0	2
	0300		991·4	...	1000·9	84·1	79·8	78·0	32·8	...	1	...	2·0	...	0	3	2	0	20	3	2	0	1
	1200		988·4	...	997·7	101·6	86·5	80·5	36·2	...		...	1·8	...	2	1	2	4	15	2	4	0	1
Jacobabad	0000	183	991·5	...	997·8	84·1	76·9	73·8	28·6	...	71	...	1·6	...	...	...	...	...	...	...	...	...	...
	0300		993·1	+0·6	999·4	85·5	77·5	73·8	28·6	—5·0	68	—10	2·2	+0·8	0	2	5	13	8	1	0	2	0
	1200		990·1	...	996·2	101·1	81·3	72·3	27·4	...	40	...	2·1	...	0	2	6	14	6	1	0	1	1

(R) Register not received.
(a) Means of 30 days.
(b) Means of 29 days.
(d) Means of 27 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST, 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	mbs.	mbs.	%	%	Octas										
Sukkur	0000														0	0	2	22	5	1	1	0	0
	0300	221	991·6	+1·3	999·1	82·9	77·5	75·1	30·7	+1·9	77	+3	2·4	+0·9	0	1	2	10	11	5	0	0	2
	1200		988·7	...	996·0	102·8	83·3	75·2	30·0	...	43	...	2·6	...	3	1	0	3	1	4	4	0	15
Padidan	0000	153	992·4	...	997·6	80·6	76·0	73·9	28·1	...	80	...	1·8	...	1	0	0	21	6	0	0	0	3
	0300		994·0	...	999·2	83·2	77·1	74·2	29·1	...	75	...	1·9	...	0	0	0	23	4	0	1	0	3
	1200		991·5	...	996·3	102·9	80·4	69·1	26·2	...	35	...	2·2	...	0	1	0	20	3	0	0	1	6
SIND (Lower)																							
Umerkot	0000	55	997·6	...	999·5	79·7	77·6	76·7	31·7	...	77	...	1·3	...	0	0	0	0	8	18	2	0	3
	0300		998·8	...	1000·7	83·4	78·8	77·1	31·5	...	77	...	4·2	...	0	1	0	0	10	17	2	1	0
	1200		996·3	...	998·1	94·2	83·2	78·4	33·8	...	79	...	2·4	...	0	0	0	0	5	23	2	1	0
Chhor	0000	19	999·2	...	999·9	79·6	76·9	75·6	30·3	...	89	...	3·9	...	0	0	0	0	7	22	1	0	1
	0300		1000·2	...	1000·9	81·8	78·2	76·6	31·3	...	85	...	5·2	...	0	1	0	0	6	22	2	0	0
	1200		997·5	...	998·1	92·8	82·1	78·0	32·5	...	62	...	3·0	...	0	0	0	0	3	25	3	0	0
Hyderabad	0000	96	995·6	...	998·9	80·2	75·7	73·8	28·3	...	80		1·3	...	0	0	0	0	0	27	2	0	2
	0300		997·1	+0·4	1000·3	82·7	76·9	74·2	28·9	+1·6	75	+12	2·5	−1·0	2	0	0	0	0	28	1	0	0
	1200		995·4	...	998·6	93·5	79·2	72·4	27·5	...	50	...	2·0	...	0	0	0	1	1	25	2	1	1
Karachi (A. P.) †	0000	73	998·5	...	1001·0	79·8	76·7	75·3	30·4	...	91	...	4·7	...	0	0	0	0	1	8	17	1	4
	0300		999·6	...	1002·1	81·1	73·9	75·3	25·4	...	70	...	6·1	...	0	0	0	0	0	9	22	0	0
	1200		997·8	...	1000·2	85·0	78·4	75·4	30·2	...	73	...	5·1	...	0	0	0	0	2	17	11	0	1
Karachi(Manora)	0000	13	1000·2	...	1000·7	79·6	76·8	75·6	30·2	...	87	...	5·6	...	0	0	0	0	0	8	20	0	3
	0300		1001·4	+0·4	1001·9	80·1	77·1	75·8	30·4	+0·1	87	−1	5·8	−0·5	0	0	0	0	0	8	20	0	3
	1200		999·7	...	1000·1	83·7	79·0	76·8	31·7	...	81	...	4·6	...	0	0	0	0	0	12	19	0	0
Badin	0000	31	999·6	...	1000·6	79·9	75·8	74·1	28·6	...	83	...	1·6	...	*	*	*	*	*	*	*	*	*
	0300		1000·4	+0·5	1001·6	82·7	77·5	75·3	29·9	+0·8	79	−1	3·3	−1·9	*	*	*	*	*	*	*	*	*
	1200		998·2	...	999·2	90·4	79·6	74·8	29·6	...	60	...	2·7	...	*	*	*	*	*	*	*	*	*
HILL STATIONS (excluding Kashmir and Baluchistan).																							
Murree	0000	7,113	780·6	...	792·1	61·5	58·7	56·1	15·9	...	84	...	5·4	...	0	0	1	8	0	0	4	13	5
	0300		781·9	+0·3	793·4	65·2	60·7	57·5	16·5	−1·4	78	−9	5·1	+0·6	0	1	9	8	0	0	4	1	8
	1200		781·1	...	792·4	69·8	65·0	62·0	19·4	...	77	...	5·6	...	1	0	6	3	0	2	7	6	6
Cherat	0000	4,272	863·6	...	892·0	71·1	66·9	64·2	20·8	...	81	...	3·4	...	2	0	0	2	24	0	1	1	1
	0300		864·6	+1·0	892·8	72·8	68·2	65·3	21·6	−0·1	79	−1	3·4	0·0	3	0	1	5	14	1	1	2	4
	1200		863·2	...	891·1	82·2	71·7	66·4	22·3	...	59	...	3·2	...	2	0	0	6	20	2	0	1	0
Dresh	0000	4,806	846·6	...	890·5	75·0	64·0	56·8	15·9	...	53	...	1·7	...	0	0	1	1	3	4	1	0	21
	0300		847·8	−0·8	891·7	76·9	65·4	58·1	16·7	−1·6	53	−9	2·1	+0·3	0	1	0	0	0	1	0	0	29
	1200		844·1	...	886·5	90·5	67·1	50·3	13·2	...	27	...	3·3	...	0	0	0	0	0	16	14	0	1
Parachinar	0000	5,673	821·0	...	791·5	68·3	62·2	58·7	16·9	...	72	...	2·3	...	9	7	1	2	0	0	0	2	10
	0300		822·3	+0·4	793·0	71·4	64·0	59·6	17·7	−0·2	67	0	2·0	−0·5	1	1	2	3	0	0	0	1	23
	1200		821·0	...	792·2	79·6	66·0	58·6	16·9	...	49	...	5·0	...	0	4	0	24	0	3	0	0	0
Wana	0300	4,456	*	*	*	76·2	68·3	64·5	20·3	+0·5	65	−2	0·8	−0·9	0	0	0	0	0	0	1	0	30
	1200		*	*	*	86·1	69·9	60·7	18·3	...	43	...	1·7	...	0	3	1	4	0	0	0	2	21

* Data rejected.

† Same obsy was previously designated as "Karachi Drigh Road".

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF AUGUST 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F	mbs.	mbs.	%	%	Octas										
AFGHANISTAN																							
Jalalabad	0300	1,950	924·8	...	988·3	80·1	73·8	71·2	25·9	...	73	...	1·9	...	0	0	1	3	0	0	0	0	27
	1200		921·6	...	982·8	95·6	79·5	72·7	27·8	...	49	...	2·9	...	0	3	19	4	0	0	0	0	5
Kabul	0300	5,955	816·7	...	796·5	66·3	53·9	43·1	9·8	—0·9	44	+3	0·3	—0·4	2	1	0	1	1	3	13	10	0
	1200		814·6	...	795·5	87·4	62·2	43·2	10·1	...	23	...	1·9	...	11	11	3	3	0	0	0	1	2
Kandahar	0300	3,462	884·0	...	887·4	68·1	60·7	55·2	15·2	...	64	...	0·0	...	0	0	0	0	0	0	0	0	31
	1200		881·6	...	884·8	96·1	76·8	68·0	23·6	...	40	...	0·1	...	0	0	0	0	0	6	0	0	25
IRAN																							
Jask	0300	13	1000·1	...	1000·5	86·4	80·2	77·1	32·6	...	75	...	1·1	—1·5	0	3	24	0	0	0	3	1	0
	1200		998·8	...	999·2	94·3	84·7	80·1	36·4	...	66	...	0·5	...	0	0	1	0	17	6	7	0	0
ARABIA			(c)			(c)							(c)		(c)								
Muscat	0300	20	999·7 (b)	...	1000·2	86·6 (c) (b)	82·7	82·0	36·4	...	81	...	1·7 (b)	—0·8	3 (b)	0	4	11	3	2	0	1	5
	1200		999·0 (c)	...	999·5	88·4 (a)	82·1	79·2	34·6	...	79	...	1·0	...	3 (c)	4	10	5	3	0	0	3	0
Kuwait**	0500	16	999·8	...	1000·3	93·1	*	*	*	...	*	...	0·5	...	2	0	0	2	0	3	10	8	6
	1200		998·3	...	998·8	101·3	*	*	*	...	*	...	0·1	...	4	2	10	4	0	0	2	7	2

* Data rejected.

(*b*) Mean of 29 days

(*c*) Mean of 28 days

** Observations recorded at 0500 hrs. G. M. T. instead of 0300 hrs. G. M. T.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF AUGUST 1951.

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hour	Date	Days with 0·10 or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (North)																					
Pabna ...	90·5	+1·0	95	29	79·5	+3·2	76	23	8·44	—2·02	2·42	22	17	+1·2	...	...	0	0	0	0	0
Rajshahi ...	...	...	...	...	...	...	...	...	5·80	—4·51	1·80	23	6	—8·8	...	...	0	0	0	0	0
Sirajganj ...	88·7	...	91	4 days	79·6	...	77	6 days	16·90	+5·57	3·51	22	14	—1·2	3·1	...	0	0	0	0	0
Bogra ...	90·3	+1·5	99	27	80·0	+1·4	77	15,23, 29	6·08	—6·92	3·49	24	8	—8·4	2·5	+0·8	12	0	0	0	0
Dinajpur ...	90·9	+1·9	96	4	79·6	+0·7	75	12	9·78	—3·93	5·28	23	9	—6·3	3·0	+0·7	0	0	0	0	0
Rangpur ...	...	...	...	...	...	...	...	...	9·22	—4·53	3·64	23	11	—3·0	...	...		0	0	0	0
EAST PAKISTAN (East)																					
Cox's Bazar ...	87·3	+2·0	92	11	77·8	+1·7	75	14,15, 27	26·71	—1·04	4·87	14	23	+1·1	5·8	+2·0	3	0	0	0	0
Chittagong ...	86·5	+0·6	91	11	77·3	+0·9	75	4 days	30·29	+9·87	9·01	21	20	+2·9	5·0	—1·4	1	0	0	0	0
Noakhali ...	86·6	+0·9	91	11	78·6	+0·4	76	30	23·61	—0·72	3·05	18	21	—1·9	*	*	...	...	...	...	...
Comilla ...	86·0	—1·5	92	11	78·2	+1·3	73	22	24·42	+7·24	5.13	11	15	—2·8	7·0	+3·0	0	0	0	0	0
Narayanganj ...	90·2	+2·4	93	11, 12, 15	79·5	+0·7	75	12	12·37	—0·89	2·31	11	16	—1·6	4·9	+0·9	0	0	0	0	0
Brahmanbaria ...	89·6	+0·2	94	4	78·8	+2·6	76	11	9·41	—3·25	1·92	11	15	—1·8	4·1	...	1	0	0	0	0
Srimangal ...	89·9	—0·2	95	11	77·3	+1·2	76	6 days	16·82	+2·52	3·53	11	25	+4·9	1·4	—1·6	11	1	0	0	0
Mymensingh ...	89·7	+2·0	94	11	79·3	+1·0	78	5 days	7·10	—8·39	2·05	27	15	—3·7	2·6	+0·7	1	0	0	0	0
EAST BENGAL (Deltaic)																					
Faridpur ...	85·0	—2·1	89	11	79·3	+0·6	76	23	9·71	—2·42	3·16	23	11	—6·1	5·0	—0·6	0	0	0	0	0
Barisal ...	88·9	+1·9	92	11, 21	79·8	+1·5	77	15, 30	7·60	—7·34	1·34	28	14	—6·3	3·9	+1·4	2	0	0	0	0
Khulna ...	89·4	+1·5	93	26	79·7	+1·2	78	4 days	8·78	—5·01	1·66	27	17	—1·4	3·7	+0·1	0	0	0	0	0
Jessore ...	92·4	+4·3	96	15, 29	**79·7	+1·9	...	...	9·60	—1·44	3·70	22	14	—2·6	3·8	+1·4	1	0	0	0	0
Satkhira ...	90·1	+1·6	93	11, 20	79·5	+1·1	77	23, 27	9·20	—2·37	2·62	22	18	+0·8	*	*	0	0	0	0	0
KASHMIR																					
Srinagar *																					
Gulmarg * ...																					
Sonamarg *																					
Dras *																					
Leh *																					
Skardu *																					
Gilgit *																					
Misgar ...	75·7	...	86	8	51·3	...	35	28	0·20	...	0·07	28	0	...	3·9	...	0	0	0	0	0
Jammu *																					
Kargil *																					
Gurez *																					
NORTH PUNJAB																					
Lahore ...	96·2	—0·8	103	21, 31	79·5	+0·8	72	28	3·36	—1·79	1·05	2	6	+0·3	2·7	+1·0	7	0	0	0	1
Sialkot ...	93·7	—0·5	101	7, 22	78·3	+0·1	72	13, 25	9·20	—0·10	3·92	13	9	0·0	2·0	+0·4	10	0	0	0	1
Jhelum ...	93·8	...	101	22	76·5	...	71	28	11·32	...	3·24	1	11	...	1·8	...	10	0	0	0	1
Rawalpindi ...	93·1	—0·6	101	22	73·9	—1·6	65	31	9·04	—0·13	3·55	11	9	—0·1	2·0	+0·6	12	0	0	0	0
Khushab ...	99·9	+0·1	108	7, 22	80·4	—0·7	69	26	1·35	—2·16	0·58	27	4	+0·3	5·5	+0·9	3	0	0	0	3
Lyallpur ...	97·4	—0·6	105	7	80·4	—0·1	72	31	4·26	+0·68	3·12	9	3	—2·3	2·4	0·0	4	0	0	0	0
SOUTH PUNJAB																					
Montgomery ...	99·8	—0·3	106	7	81·1	—0·6	73	27, 31	0·88	—2·02	0·70	12	1	—2·7	2·0	—2·3	3	0	0	0	1
Multan ...	101·8	+2·9	110	8	83·3	+0·4	75	12	2·41	+0·59	1·60	12	2	—0·5	3·2	+1·2	0	0	0	0	0
Fort Abbas ...	102·1	...	109	7, 8	†	...	...	...	2·29	...	0·96	19	4	...	4·9 (b)	...	0	0	0	0	1
Bahawalpur ...	101·9	+1·3	109	8	81·4	—0·3	76	31	1·78	+0·45	1·27	18	3	+0·7	5·0	+1·2	3	0	0	0	0
Khanpur ...	103·8	+1·5	109	4 days	81·7	+0·4	77	27, 30, 31	0·07	—1·86	0·05	10	0	—2·4	6·0	—0·4	4	0	0	0	2

** Extrapolated from Khulna.
* Data not available.
(b) Mean of 29 days.
† Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF AUGUST 1951.

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hour	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
N.-W. F. P. (Upper)																					
Chakdara ...	94·3	...	101	7	72·9	...	64	31	1·44	...	0·57	25	3	...	4·0	...	0	0	0	0	0
Peshawar ...	97·1	—1·1	106	8	77·5	—1·4	69	27	1·14	—0·89	0·60	18	3	+0·5	3·6	+1·9	9	0	0	0	5
Landikotal ...	91·2	...	101	7	72·0	...	63	27, 29, 31	1·87	...	1·31	12	4	...	4·7	...	8	0	0	0	0
N.-W. F. P. (Lower)																					
Bannu ...	96·3	—3·7	106	7, 8	81·1	+0·8	72	27	0·19	—1·70	0·10	13	1	—2·1	3·6	...	0	0	0	0	0
Miranshah ...	93·6	+0·1	104	8	76·6	—0·1	67	13	2·65	+1·44	2·57	13	1	—1·6	...	...	0	0	0	0	0
D. I. Khan (a) ...	102·5	+2·0	109	8	79·6	—1·6	75	9 days	0·20	—1·70	0·20	13	1	—1·3	2·5	+1·0	0	0	0	0	0
BALUCHISTAN (North)																					
Fort Sandeman ...	97·2	+0·3	103	1	72·9	—0·4	66	5	3·92	+2·02	1·54	12	5	+1·2	3·3	+1·3	1	0	0	0	0
Hindubagh ...	94·2	...	101	8	65·6	...	56	31	0·19	...	0·12	9	1	...	...	...	1	0	0	0	1
Loralai ...	92·3	...	97	1, 2, 3	65·4	...	59	31	1·33	+0·11	0·80	10	3	+1·1	4·0	...	4	0	0	0	0
Harnai ...	...	...	...	...	...	...	...	...	1·15	—1·51	0·80	11	3	—1·3	...	...	...	...	...	...	...
Sibi ...	106·8	+1·9	114	9	84·9	—0·4	74	11	1·07	+0·49	0·98	11	1	—0·1	4·4	—0·6	0	0	0	0	0
Quetta ...	92·4	...	101	8	58·5	...	45	28	0·78	...	0·39	9, 11	2	...	3·8	+1·8	0	0	0	0	0
Quetta (Samungli)	93·7	...	101	8	57·6	...	43	28	0·11	...	0·11	12	1	...	5·0	...	0	0	0	0	1
Chaman ...	96·1	—2·2	105	5, 8, 9	71·6	—1·7	62	27	0·00	—0·04	0·00	...	0	—0·1	6·7	+2·2	0	0	0	0	0
Nushki ...	103·3	...	113	9	78·7	...	70	27, 29	0·00	...	0·00	...	0	...	6·1	...	0	0	0	0	0
Kalat ...	87·8	—2·0	97	8	57·0	—1·2	49	26, 27	0·67	+0·34	0·48	10	2	+1·1	4·4	+0·5	0	0	0	0	0
Dalbandin ...	104·7	—1·4	112	6, 8, 9	70·2	—1·4	56	30	0·00	—0·13	0·00	...	0	—0·2	5·5	+1·2	0	0	0	0	9
Nokkundi ...	105·5	—1·4	116	6, 7	78·2	—2·9	67	21	0·00	0·00	0·00	...	0	0·0	10·8	—1·2	0	0	0	0	0
BALUCHISTAN (South)																					
Lasbela (R)																					
Ormara ...	87·1	+0·1	90	4 days	78·9	+0·4	76	31	0·34	+0·23	0·29	11	1	+0·7	10·0	+1·4	0	0	0	0	0
Pasni ...	88·0	—0·2	91	10, 17	77·2	+0·9	74	18, 20	0·26	+0·09	0·15	10	2	+1·7	7·0	+1·3	0	0	0	0	0
Turbat ...	107·4	...	117	17, 18	81·1	...	77	28	0·00	...	0·00	...	0	...	7·2	...	0	0	0	0	0
Panjgur ...	98·8	—2·1	107	5, 6, 8	68·2	—5·0	56	28	0·00	—0·34	0·00	...	0	—0·7	4·3	+0·3	0	0	0	0	0
SIND (Upper)																					
Reti ...	105·9	...	111	1, 2	80·7	...	76	11, 27, 30	1·65	...	1·42	11	2	...	8·3	...	0	0	0	0	1
Jacobabad ...	103·7	0·0	109	1, 2, 9	82·1	—0·1	77	31	1·08	+0·20	1·08	9	1	—0·3	7·7	+1·9	1	0	0	0	2
Sukkur ...	104·8	+3·6	110	1, 2	79·7	—1·1	75	30, 31	0·48	—0·64	0·46	9	1	0·0	0·9	—3·5	0	0	0	0	0
Padidan ...	105·1	...	112	4	79·1	...	70	22	0·83	...	0·43	11	3	...	4·3	...	2	0	0	0	0
SIND (Lower)																					
Umarkot ...	97·4	...	102	9, 10	78·9	...	75	29, 30	0·90	...	0·50	9	2	...	9·5	...	0	0	0	0	0
Chhor ...	95·0	...	102	9	78·9	...	75	30, 31	1·14	...	0·60	8	4	...	10·2	...	0	0	0	2	0
Hyderabad ...	99·0	+3·2	106	10	79·9	+0·7	77	29, 30, 31	1·36	—0·67	0·85	11	2	—0·2	8·6	—0·4	4	0	0	0	1
Karachi (Air Port)†	88·6	...	96	10	79·3	...	77	28, 29, 30	1·31	...	0·94	11	3	...	12·7	...	3	0	0	0	0
Karachi (Manora)	85·5	—0·3	88	6 days	78·8	+0·3	77	5 days	1·03	—0·53	0·67	11	3	+1·4	7·9	—2·5	0	0	0	0	0
Badin ...	93·6	+1·4	101	9	79·4	+0·1	76	31	0·00	—2·32	0·00	...	0	—2·3	8·8	...	0	0	0	0	0

(a) Mean of 30 days.

(b) Mean of 29 days.

(R) Register not received.

(†) Same obsy was Previously designated as "Karachi Drigh Road".

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF AUGUST 1951.

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Whether Number of day				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hour	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
HILL STATIONS (excluding Kashmir and Baluchistan).																					
Murree ...	72·9	—0·3	78	7	59·0	+1·6	48	31	10·00	—3·81	2·37	31	14	—0·3	4·8	+1·6	11	0	15	0	0
Cherat ...	*	...	...	...	68·3	—1·6	60	27	3·63	—1·31	1·04	2	8	+1·6	6·6	+2·1	6	0	5	0	0
Drosh ...	95·0	—0·2	102	5, 7, 8	73·7	+1·1	60	27, 31	0·23	—0·42	0·05	26,28, 31	0	—1·9	7·6	+3·4	13	0	0	0	0
Parachinar ...	84·5	—0·2	92	8	65·0	+0·2	55	27	4·78	+1·08	1·63	9	9	+1·4	3·3	+1·2	17	0	0	0	0
Wana ...	92·1	+0·7	97	4 days	69·4	—0·7	62	28	0·66	—0·28	0·36	13	3	—0·2	0·5	...	0	0	0	0	0
AFGHANISTAN																					
Jalalabad ...	99·0	...	108	8	76·3	...	65	31	0·00	...	0·00	...	0	...	2·5	...	0	0	0	0	0
Kabul ...	91·3	+0·3	99	8	58·5	+0·2	51	27, 28	0·66	+0·57	0·55	13	1	+0·6	2·3	+0·7	6	0	0	0	1
Kandahar ...	99·3	...	105	4, 8	58·0	...	46	30	0·00	...	0·00	...	0	...	0·6	...	0	0	0	0	0
IRAN																					
Jask ...	96·3	+1·8	105	17	84·9	+1·1	81	25	0·00	—0·01	0·00	...	0	0·0	10·1	+1·8	0	0	0	1	1
ARABIA																					
Muscat ...	92·0	—1·3	103	9	84·8	+1·3	81	20	0·00	—0·02	0·00	...	0	—0·1	3·0	0·0	0	0	0	0	0
Kuwait** ...	103·8	...	115	18	88·3	...	83	31	0·00	...	0·00	...	0	...	5·9	...	0	0	0	0	0

* Data not available.

** Observations recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T.

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PAKISTAN WEATHER REVIEW, 1951

Monthly Weather Report

September

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Chief Features:—(1) Active monsoon in East Pakistan during the first three weeks.

(2) Abnormally high temperatures in lower Sind and South Baluchistan on the last three days of the month.

West Pakistan:—Intermittent light spells of wet weather and thunderstorm activity were experienced in the north Punjab and the North-West Frontier Province during the month due to the eastward passage of low pressure waves across the extreme north of West Pakistan.

A trough of low which was lying off the Konkan-Kanara coasts from the 26th till 28th and extending from Kathiawar to the east Arabian Sea on the 29th, concentrated into a shallow depression off the Konkan-Kathiawar coast on the last day of the month. It was responsible for a heat wave in lower Sind and south Baluchistan where the day temperatures were markedly to considerably above normal from the 28th till the close of the month.

Some of the noteworthy amounts of rainfall recorded during the month were:—Drosh ¼″ on the 6th; Cherat and Rawalpindi ¼″ each on the 8th; Murree ½″ on the 11th and ¼″ on the 8th and 23rd.

The mean actual rainfall during the month was in large decfect over the north Punjab and the upper North-West Frontier Province while no rain fell elsewhere. The mean maximum temperature was in excess over the north Punjab and north Baluchistan and normal elsewhere. The mean minimum temperature was normal over the region outside the lower North-West Frontier Province and north Baluchistan where it was in defect. The mean relative humidity was normal, while the skies were clouded less than usual.

East Pakistan: A low pressure wave moving westwards across central Burma and East Pakistan on the 9th, intensified into a depression by about 40 miles south of Asansol on the 10th morning. It moved away westnorth-westwards into the United Provinces, thereafter.

Monsoon remained active uptil the 20th and became weak thereafter.

A trough of low appearing in the Central and south Bay of Bengal on the 26th, concentrated into a depression by the 28th, moving northnorth-eastwards was lying with its centre within one degree latitude 15½°N and longitude 86½°E on the last day when the monsoon began to regain its intensity.

Some of the noteworthy amounts of rainfall recorded during the month were:—Chittagong 2″ on the 2nd; Brahmanbaria and Comilla 3″ each on the 3rd; Barisal 2″ on the 5th; Cox's Bazar 8″ on the 9th; Cox's Bazar and Jessore 3″ each, Satkhira, Khulna and Faridpur 2″ each on the 10th; Comilla 2″ on the 14th; Chittagong 6″ on the 16th; Srimangal 5″ and Chittagong 2″ on the 17th; Srimangal 2″ on the 18th; and Comilla 3″ on the 30th.

The mean actual rainfall during the month was normal over the Eastern sub-division and in large defect elsewhere. The mean maximum and minimum temperatures and the relative humidity were normal with the exception of the maximum temperature being in excess over the Northern sub-division. Skies were clouded as usual over the Eastern and Deltaic sub-divisions and less clouded over the Northern sub-division.

Table I contains the Divisional and sub-Divisional means of rainfall, temperature, humidity and cloud for the 5 chief Divisions and 12 Sub-Divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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Table I.—Divisional and sub-divisional means September 1951

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G.M.T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	Mb.	%	
East Pakistan	8·25	10·85	—2·60	—24	+1·3	+0·8	+0·5	—1	—0·5
Mean of East Pakistan	8·25	10·85	—2·60	—24	+1·3	+0·8	+0·5	—1	—0·5
Punjab	0·07	2·00	—1·93	—97	+2·9	+1·0	—0·9	—2	—0·8
N.-W.F.P.	0·09	0·72	—0·63	—88	+1·1	+1·4	—0·2	—2	—0·9
Baluchistan	0·00	0·16	—0·16	—100	+1·3	+1·6	+1·0	+1	—0·4
Sind	0·00	0·45	—0·45	—100	+1·5	—0·6	—1·1	0	—0·9
Mean of West Pakistan excluding Baluchistan	0·05	1·26	—1·21	—96	+2·1	+0·5	—0·9	—1	—0·9
Sub-Division									
East Pakistan (North)	3·79	11·04	—7·25	—65	+2·0	+1·1	+0·3	—4	—1·0
East Pakistan (South)	12·14	12·06	+0·08	+1	+0·7	+0·7	+0·3	0	—0·5
East Pakistan (Deltaic)	8·18	8·90	—0·72	—71	+1·6	+0·7	+0·7	—1	—0·2
Kashmir*	...	...	...	...	...	...	...	...	...
North Punjab	0·12	2·24	—2·12	—95	+3·6	+1·7	—0·5	—3	—1·1
South Punjab	0·00	0·53	—0·53	—100	+1·9	0·0	—1·3	—1	—0·5
N.-W.F.P. (Upper)	0·19	0·81	—0·62	—77	+0·9	+0·8	—0·3	—3	—1·0
N.-W.F.P. (Lower)	0·00	0·63	—0·63	—100	+1·3	+2·0	—0·1	—1	—0·6
Baluchistan (North)	0·00	0·21	—0·21	—100	+2·0	+2·1	+0·7	+1	—0·3
Baluchistan (South)	0·00	0·21	—0·21	—100	0·0	+0·6	+1·1	0	—0·7
Sind (Upper)	0·00	0·09	—0·09	—100	+0·9	+1·1	—3·3	—1	—0·5
Sind (Lower)	0·00	0·68	—0·68	—100	+1·8	—0·2	+0·3	+1	—1·1

* Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1951

Sub-Division and Station	Hours of observation	Height of bar. cistern above mean sea level	Mean pressure: Station level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Octas	Octas									
EAST PAKISTAN (North)																							
Pabna	0300	...	...	...	...	86·0	81·2	79·0	33·9	+0·6	80	—1	...	...	...	...	...	...	...	...	...	...	...
Sirajganj	0000	49	1002·8	...	1004·5	80·7	79·6	79·0	34·5	...	95	...	4·4	...	0	0	3	2	4	1	0	0	20
	0300	...	1005·2	...	1006·8	85·1	81·0	79·1	34·3	...	83	...	4·6	...	0	0	5	0	4	3	0	0	18
	1200	...	1001·2	...	1002·9	85·4	80·6	78·4	32·7	...	81	...	4·7	...	1	0	1	4	1	0	0	0	23
Bogra	0000	*65	1003·9	...	1006·1	79·5	77·7	76·9	30·8	...	92	...	5·4	...	0	0	0	3	0	0	0	0	27
	0300	63	1005·1	+0.5	1007·2	85·1	80·0	77·9	32·7	—0·2	80	—4	4·6	—0·4	1	3	10	4	1	7	1	1	2
	1200	...	1001·4	...	1003·5	86·8	80·6	77·9	33·4	...	75	...	4·8	...	0	2	10	4	0	4	1	0	9
Dinajpur	0000	123	1003·0	...	1007·2	78·5	77·1	76·6	31·5	...	93	...	4·0	...	1	1	2	0	0	0	0	0	26
	0300	...	1004·3	+2.1	1008·5	85·0	80·0	77·9	32·7	+0·4	79	—6	3·5	—1·6	0	0	3	0	0	0	0	0	27
	1200	...	1000·8	...	1004·9	85·2	80·2	78·3	32·7	...	80	...	3·5	...	0	0	3	0	1	1	0	0	25
EAST PAKISTAN (East)																							
Cox's Bazar	0000	38	1006·2	...	1007·6	77·2	76·5	75·9	30·9	...	98	...	4.4	...	0	0	2	4	1	0	0	0	23
	0300	...	1007·6	+1·4	1008·9	83·5	79·4	77·9	32·0	+0·3	83	—1	3·8	—1·4	0	0	0	1	8	0	0	0	21
	1200	...	1004·2	...	1005·5	82·9	78·6	76·6	31·3	...	81	...	3.7	...	0	0	0	4	7	1	0	0	18
Chittagong																							
	0300	87	1005·4	+0·7	1008·3	83·2	78·9	76·8	31·3	0	81	—3	5·2	—0·3	3	2	1	10	4	0	0	0	10
	1200	...	1001·7	...	1004·5	83·7	79·0	77·1	32·4	...	81	...	5·4	...	2	1	0	4	8	5	6	2	2
Noakhali (Maijdee) ...	0000	22	×	...	×	(g) 79·7	(g) 78·2	(g) 77·7	(g) 32·6	...	(g) 93	...	(g) 4·9	...	×	×	×	×	×	×	×	×	×
	0300	...	×	...	×	(g) 83·0	(g) 79·1	(g) 77·6	(g) 32·0	—0·6	(g) 83	—3	(g) 4·2	—0·5	×	×	×	×	×	×	×	×	×
	1200	...	×	...	×	(g) 86·0	(g) 80·6	(g) 74·7	(g) 33·1	...	(g) 78	...	(g) 4·4	...	×	×	×	×	×	×	×	×	×
Comilla	0000	29	1005·6	...	1006·8	78·5	77·2	76·4	31·5	...	93	...	6·2	...	1	1	1	6	7	0	1	0	13
	0300	...	1007·3	+1·1	1008·3	83·4	79·7	78·0	32·8	+0·6	85	+5	5·1	+0·2	2	2	1	13	9	2	0	0	1
	1200	...	1003·0	...	1004·0	86·1	80·8	78·5	33·1	...	78	...	5·1	...	7	2	0	6	8	1	0	3	3
Narayanganj	0000	26	1005·0	...	1006·0	84·7	79·8	78·0	32·7	...	79	...	5·2	...	0	0	5	4	6	1	2	1	11
	0300	...	1006·3	+0·3	1007·3	84·8	79·9	79·0	32·7	+0·2	79	—3	5·9	—0·2	0	3	4	4	7	3	3	1	5
	1200	...	1002·6	...	1003·5	83·9	79·8	77·9	33·2	...	83	...	4·9	...	2	1	3	4	6	1	1	0	12
Brahmanbaria	0000	32	1006·0	...	1007·1	80·3	78·3	77·5	31·9	...	91	...	4·4	...	0	0	2	6	7	0	0	0	15
	0300	...	1007·1	...	1008·2	84·8	79·5	77·1	31·9	+0·8	78	—1	4·0	...	2	0	1	12	5	1	0	0	9
	1200	...	1003·6	...	1004·7	85·7	80·5	78·4	33·9	...	79	...	3·2	...	0	0	1	1	7	0	0	0	21
Srimangal	0000	69	1005·2	...	1007·5	75·0	74·2	73·2	28·2	...	95	...	5·1	...	0	0	1	3	1	1	0	0	24
	0300	...	1006·1	+0·6	1008·5	82·2	78·4	76·8	30·9	—0·6	84	—1	5·0	+0·1	4	3	6	2	3	3	0	0	9
	1200	...	1002·1	...	1004·4	83·8	80·1	78·4	34·0	...	85	...	4·8	...	0	2	2	5	3	1	1	1	15
Mymensingh	0000	62	1004·2	...	1006·4	79·5	78·3	77·8	32·3	...	94	...	4·5	...	0	0	8	0	0	0	0	0	22
	0300	...	1006·0	+0·8	1008·3	82·9	79·9	78·4	33·6	+1·1	87	+2	4·7	—1·3	0	0	13	0	0	0	1	0	16
	1200	...	1002·0	...	1004·2	85·5	81·2	79·3	33·5	...	83	...	4·7	...	0	0	9	0	0	0	0	1	20
EAST PAKISTAN (Deltaic)																							
Faridpur	0000	46	1003·4	...	1005·0	79·7	78·8	78·0	33·4	...	96	...	5·6	...	1	0	0	4	9	1	0	1	14
	0300	...	1006·1	+1·3	1007·7	84·9	80·8	79·0	34·3	+1·0	83	+2	5·4	+0·4	1	3	3	7	9	2	1	1	3
	1200	...	1002·3	...	1003·9	85·1	80·8	79·0	33·5	...	81	...	5·3	...	1	1	2	6	7	1	0	1	11
Barisal	0000	11	1005·5	...	1005·9	78·3	77·1	76·7	31·3	...	94	...	5·2	...	1	0	0	4	0	4	0	0	21
	0300	...	1007·5	+1·2	1007·9	84·7	80·6	79·1	34·3	+1·4	83	0	5·4	+0·1	1	5	2	9	2	5	0	1	5
	1200	...	1003·8	...	1004·2	84·7	79·9	77·9	32·7	...	81	...	5·8	...	0	1	0	7	4	5	0	2	11

* The observations at 000 hrs. recorded from a distant site. (g) Mean for 24 days. × Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1951

Sub-Division and Station	Hours of observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp & M.S.L. or nearest GPKM level	Mean temperature of the air & humidity: Dry Bulb	Wet Bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Octas	Octas									
Khulna	0000	16	1005·6	...	1006·2	80·0	78·6	78·4	32·6	...	93	...	3·9	...	1	0	2	3	2	3	0	0	19
	0300	...	1007·3	+1·2	1007·9	85·5	80·4	78·3	32·7	+0·1	79	—2	3·9	—1·8	2	1	2	6	4	8	0	1	6
	1200	...	1003·5	...	1004·1	85·3	80·0	77·8	31·9	...	77	...	4·5	...	0	0	0	10	3	1	1	0	15
Jessore	0000	26	1005·5	...	1006·2	78·7	77·8	77·4	32·3	...	95	...	4·1	...	0	0	1	4	7	0	1	1	16
	0300	...	1006·6	+1·0	1007·5	85·7	80·8	78·9	33·9	+0·6	80	—4	4·4	—0·7	2	2	0	8	5	7	0	0	6
	1200	...	1003·1	...	1004·0	85·2	80·5	78·4	33·5	...	81	...	5·1	...	0	1	6	2	10	1	0	0	10
Satkhira...	0000	16	1004·3	...	1004·8	80·2	79·0	78·4	33·4	...	96	...	5·6	...	0	5	0	8	1	2	0	2	12
	0300	...	1005·9	+0·1	1006·2	84·9	80·7	78·8	34·3	+0·6	83	0	5·8	+0·8	0	0	0	13	0	6	0	3	8
	1200	...	1003·3	...	1003·8	85·4	81·5	79·9	34·3	...	83	...	6·9	...	0	0	0	13	0	6	0	1	10
KASHMIR																							
Srinagar*	0000	5205																					
	0300																						
	1200																						
Gulmarg*	0000	8709																					
	0300																						
	1200																						
Dras*	0000	10059																					
	0300																						
	1200																						
Leh*	0000	11529																					
	0300																						
	1200																						
Skardu *	0000	7505																					
	0300																						
	1200																						
Gilgit †	0000	4890																					
	0300																						
	1200																						
Misgar	0000	10190	701·8	...	705·3	44·0	36·8	27·4	5·2	...	53	...	1·6	...	0	0	1	0	0	0	0	0	29
	0300	...	702·3	...	706·0	45·6	37·9	27·4	5·4	...	52	...	2·2	...	0	0	2	0	0	0	2	0	26
	1200	...	699·3	...	702·8	62·8	44·5	22·2	4·3	...	24	...	3·6	...	0	0	19	0	0	0	10	0	1
NORTH PUNJAB																							
Lahore	0000	702	980·4	...	1004·6	76·6	71·8	69.4	24·5	...	77	...	0·4	...	0	0	2	4	0	0	0	0	24
	0300	...	982·0	+1·1	1005·8	84·3	74·0	68·7	24·0	—1·2	59	—7	0.3	—1·1	0	0	2	11	3	2	2	0	10
	1200	...	979·1	...	1002·2	98·5	77·1	65.9	22·1	...	35	...	0·4	...	2	2	0	1	1	0	6	2	16
Sialkot	0000	830	976·2	...	1004·5	76·9	72·9	67.3	24·9	...	74	...	1·0	...	0	9	6	3	0	0	1	3	8
	0300	...	977·8	+1·0	1005·8	81·7	75·1	73.0	26·8	+1·3	73	—2	1·1	—0·5	0	9	8	10	0	1	0	1	1
	1200	...	974·7	...	1002·0	96.4	77·3	67·0	23·2	...	40	...	1·9	...	0	2	1	4	0	3	4	4	12
Jhelum	0000	765	978·7	...	1005·0	75·7	71·4	69·2	23·7	...	80	...	0·2	...	0	0	1	0	0	0	0	1	28
	0300	...	980·1	...	1005·9	83·1	73.5	68·6	23·9	...	62	...	0·6	...	0	0	3	6	0	0	0	1	20
	1200	...	976·9	...	1001·9	96·3	77.9	68·8	24·3	...	41	...	1·0	...	0	0	0	0	4	10	3	0	13

*Data not available. †Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Station level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
NORTH PUNJAB (Contd.)	G.M.T	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Octas.	Octas.									
Rawalpindi	0000	1676	948·3	...	1005·2	73·1	67·3	64·3	20·5	...	72	...	0·6	...	0	0	0	0	0	0	0	0	30
	0300	...	949·4	+0·4	1005·6	81·0	69·9	63·8	20·5	—1·3	57	—1	0·8	—0·8	5	0	1	0	1	0	0	0	23
	1200	...	(b) 947·2	...	(b) 1002·0	(b) 92·9	(b) 73·9	(b) 64·3	(b) 20·8	...	(b) 39	...	(b) 1·7	...	(b) 3	0	1	0	4	2	2	0	17
Khushab	0000	616	983·3	...	1004·4	78·6	71·6	67·7	23·3	...	70	...	0·0	...	0	4	14	0	2	0	0	0	10
	0300	...	984·3	+0·3	1005·2	84·9	74·7	69·8	24·7	+0·9	61	—3	0·0	—1·1	0	8	14	5	1	1	1	0	0
	1200	...	981·2	...	1001·5	100·0	79·4	68·8	24·9	...	38	...	0·2	...	0	2	10	10	6	2	0	0	0
Lyallpur	0000	605	982·9	...	1003·7	80·0	70·6	66·3	22·3	...	70	...	0·2	...	0	1	2	10	9	2	0	0	6
	0300	...	983·9	+0·2	1004·5	81·5	72·5	67·9	23·2	—0·4	63	—1	0·2	—1·3	1	0	0	9	10	2	2	0	6
	1200	...	981·4	...	1001·3	98·5	75·5	67·1	24·1	...	39	...	0·5	...	1	0	2	6	8	4	0	0	9
SOUTH PUNJAB																							
Montgomery	0000	558	985·0	...	1004·1	78·0	70·4	66·2	22·0	...	67	...	0·0	...	0	0	0	0	1	16	3	0	10
	0300	...	986·4	+1·0	1005·3	83·0	72·3	66·4	22·2	—3·7	58	—11	0·1	—0·8	0	2	1	5	2	7	3	0	10
	1200	...	983·5	...	1001·8	100·0	76·1	63·0	19·2	...	30	...	0·0	...	0	0	0	0	1	0	0	0	29
Multan	0300	413	990·5	+0·6	1004·6	82·0	72·3	67·6	22·7	—4·8	62	—7	0·0	—0·6	0	1	0	2	14	9	0	0	4
	1200	...	987·9	...	1001·5	100·8	76·9	64·1	20·7	...	31	...	0·0	...	0	2	0	0	13	10	1	1	3
	0000	475	983·4	...	999·6	81·6	*	*	*	...	*	...	0·0	...	0	2	0	0	2	26	0	0	0
Fort Abbas	0300	...	984·7	...	1000·8	86·3	*	*	*	...	*	...	0·1	...	0	2	0	1	1	26	0	0	0
	1200	...	985·2	...	1000·7	102·8	*	*	*	...	*	...	0·0	...	0	3	0	0	0	27	0	0	0
Bahawalpur	0300	384	991·9	+1·2	1005·0	80·7	73·3	69·1	24·7	—2·5	68	+1	0·0	—0·4	3	0	0	0	6	14	1	1	5
	1200	...	989·2	...	1001·8	100·6	78·3	67·4	22·9	...	34	...	0·0	...	0	0	0	0	0	17	4	0	9
Khanpur	0300	297	995·2	+1·3	1005·4	80·9	74·6	71·4	26·4	+2·2	73	+8	0·1	—0·3	2	0	0	0	1	20	6	1	0
	1200	...	992·1	...	1001·8	101·0	81·4	70·7	27·6	...	45	...	0·0	...	2	1	0	0	1	18	6	2	0
N.-W.F.P. (Upper)																							
Chakdara	0000	2197	930·8	...	1006·0	70·9	63.2	58·3	16·7	...	65	...	0·8	...	8	0	1	6	3	0	3	3	6
	0300	...	932·0	...	1006·7	74·9	65·2	59·2	17·3	...	59	...	0·5	...	3	3	0	6	2	1	2	3	10
	1200	...	928·8	...	1001·0	91·3	73·6	64·3	21·1	...	42	...	0·5	...	7	2	1	5	3	1	4	4	3
Peshawar	0000	1175	964·7	...	1004·9	74·2	66·3	60·9	18·5	...	63	...	0·4	...	1	0	0	0	2	2	1	7	17
	0300	...	966·3	+0·7	1006·0	80·0	69·4	62·6	19·8	—0·3	57	—3	0·5	—1·0	5	0	0	0	0	3	2	3	17
	1200	...	963·1	...	1001·7	92·8	72·1	59·2	17·3	...	34	...	2·8	...	9	15	0	0	2	0	1	1	2
Landikotal	0000	3503	889·7	...	894·6	68·1	62·2	58·4	16·7	...	71	...	0·4	...	0	0	0	0	0	0	0	0	30
	0300	...	891·0	...	895·8	78·4	67·3	61·0	18·3	...	55	...	0·5	...	0	1	0	2	0	0	0	1	26
	1200	...	888·5	...	893·1	86·2	71·8	64·2	20·8	...	48	...	2·5	...	0	6	4	18	0	0	0	0	2
N.-W.F.P. (Lower)																							
Bannu	0000	1264	961·3	...	1004·2	77·1	67·9	63·6	19·1	...	61	...	0·2	...	5	3	4	2	5	2	1	2	6
	0300	...	962·4	...	1005·0	81·2	71·1	63·0	21·4	—0·1	59	—1	0·1	—0·8	2	0	2	1	0	0	1	0	24
	1200	...	959·9	...	1001·2	97·4	73·6	58·1	17·5	...	28	...	1·3	...	1	3	12	9	2	0	0	1	2
Miranshah	0000	3026	*	...	*	75·6	(m) 63·5	(m) 56·0	15·1	...	(m) 50	...	0·8	...	0	8	12	4	2	2	0	0	2
	0300	...	*	...	*	77·7	(m) 64·5	(m) 57·0	(m) 15·4	+0·3	(m) 48	—4	0·2	—0·4	0	0	0	1	0	0	0	0	29
	1200	...	*	...	*	83·4	(m) 70·0	(m) 55·0	(m) 15·5	...	(m) 29	...	1·7	...	2	8	13	5	1	1	0	0	0
D. I. Khan	0000	570	984·6	...	1004·2	78·0	70·5	65·4	22·1	...	67	...	0·0	...	2	13	3	0	0	0	0	0	12
	0300	...	986·4	+1·7	1005·8	80·0	73·5	69·6	25·3	0·0	72	+3	0·0	—0·8	4	19	1	0	0	0	0	0	6
	1200	...	982·4	...	1001·1	100·7	76·8	64·0	20·6	...	31	...	0·1	...	2	19	1	0	1	0	0	0	7

(b) Mean and frequencies for 29 days. * Data rejected (m) Mean of 18 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above Mean sea level	Mean pressure: Station level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction, Number of observations from: N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Octas.	Octas.									
BALUCHISTAN (North)																							
Fort Sandeman	0000	4614	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	...	858·6	+2·0	897·1	74·4	59·4	46·8	11·3	—1·8	38	—13	0·0	—0·6	0	0	0	0	0	1	0	0	29
	1200	...	855·2	...	892·3	93·0	60·9	25·1	4·8	...	10	...	1·0	...	1	(b) 0	3	0	0	8	0	1	16
Hindubagh	0000	5909	819·3	...	795·5	62·0	49·1	37·0	7·2	...	38	...	0·0	...	0	0	0	0	0	0	5	0	25
	0300	...	820·3	...	796·6	73·5	55·3	39·9	8·5	...	30	...	0·0	...	0	0	0	0	2	12	10	0	6
	1200	...	818·0	...	794·2	86·5	57·7	29·6	5·9	...	14	...	0·7	...	0	0	2	0	3	11	9	3	2
Loralai	0000	4699	853·3	...	895·3	60·6	54·8	49·9	12·0	...	67	...	0·0	...	0	0	1	0	1	3	9	0	16
	0300	...	854·1	...	895·6	68·4	58·8	51·1	12·7	...	53	...	0·0	...	0	0	0	0	0	6	5	1	18
	1200	...	852·7	...	892·6	87·6	74·7	67·9	23·8	...	53	...	0·0	...	0	2	0	8	5	5	1	0	9
Sibi	0000	441	989·0	...	1004·1	80·7	68·8	60·1	18·4	...	52	...	0·1	...	0	1	0	3	1	0	0	1	24
	0300	...	990·2	+1·7	1005·2	84·1	70·4	62·5	19·2	—1·3	49	—1	0·0	—0·5	0	0	0	6	0	1	0	0	23
	1200	...	986·5	...	1000·8	104·4	72·7	51·4	13·4	...	18	...	0·2	...	1	0	0	4	5	19	0	0	1
Quetta	0000	5490	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	...	831·6	—0·5	796·3	64·2	53·2	43·9	9·8	—0·4	48	—4	0·0	—0·3	1	0	0	3	3	1	0	1	21
	1200	...	829·3	...	795·6	85·9	59·8	38·5	8·3	...	20	...	0·7	...	5	2	0	1	0	1	4	16	1
Quetta (Samungli) ...	0000	5253	840·1	...	796·8	53·9	46·7	39·5	8·4	...	60	...	0·0	...	0	0	9	15	0	1	0	0	5
	0300	...	841·5	...	798·8	64·0	52·4	42·2	9·3	...	46	...	0·0	...	0	0	4	10	0	1	1	0	14
	1200	...	838·7	...	798·1	87·1	61·9	40·9	9·8	...	22	...	0·5	...	3	1	1	0	0	4	6	14	1
Chaman	0000	4311	865·8	...	895·4	70·1	57·2	44·8	10·6	...	43	...	0·0	...	0	0	19	10	1	0	0	0	0
	0300	...	867·2	+0·9	896·6	75·3	62·1	51·6	13·5	+5·6	45	+14	0·0	—0·2	1	1	8	10	4	2	1	1	2
	1200	...	865·2	...	893·4	90·3	76·1	66·2	24·7	...	51	...	0·0	...	0	0	1	0	0	10	14	4	1
Nushki	0000	3412	899·1	...	900·9	76·9	57·7	39·6	8·6	...	28	...	0·0	...	(b) 0	3	17	1	0	0	0	0	8
	0300	...	900·5	...	902·2	81·6	61·4	44·7	10·5	...	29	...	0·0	...	1	4	18	1	0	0	0	0	6
	1200	...	897·6	...	899·2	97·9	69·0	47·0	12·4	...	20	...	0·0	...	0	0	0	0	0	3	16	11	0
Kalat	0000	6616	799·9	...	797·3	53·9	46·2	37·6	8·0	...	55	...	0·0	...	0	0	0	0	2	0	0	0	28
	0300	...	801·0	+2·0	798·8	59·4	50·5	42·1	9·3	+0·6	51	+7	0·0	—0·3	0	0	0	5	24	0	0	0	1
	1200	...	799·2	...	796·7	81·0	62·6	51·0	12·7	...	33	...	0·9	...	13	3	0	2	1	1	0	10	0
Dalbandin	0000	2785	912·9	...	894·8	70·4	55·9	42·5	7·3	...	37	...	0·0	...	2	5	0	0	0	3	1	2	17
	0300	...	914·1	+0·8	896·2	73·3	57·4	43·1	9·4	+1·3	34	0	0·0	—0·4	0	7	1	0	0	2	1	2	17
	1200	...	911·3	...	894·2	99·4	70·5	51·5	27·2	...	43	...	0·4	...	0	2	2	5	0	10	1	5	5
Nokkundi	0000	2229	929·9	...	1003·8	78·2	60·2	45·6	10·4	...	32	...	0·0	...	11	2	0	0	0	0	0	12	5
	0300	...	931·6	...	1005·8	79·7	62·6	49·7	12·8	+2·4	36	+3	0·3	—0·1	7	2	2	0	1	0	1	8	9
	1200	...	929·3	...	999·8	101·1	79·4	69·2	25·3	...	38	...	0·3	...	10	0	1	0	2	0	1	11	5
BALUCHISTAN (South)																							
Las Bela (R)	0000	292	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	0300	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	1200	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Ormora...	0000	15	1006·1	...	1006·6	78·2	76·4	75·7	29·7	...	91	...	3·4	...	0	0	0	0	0	11	12	0	7
	0300	...	1007·2	...	1007·7	79·6	77·0	76·0	30·5	+2·9	89	+3	3·5	—1·4	0	0	0	1	0	10	13	0	6
	1200	...	1004·2	...	1004·7	85·1	79·2	76·7	31·1	...	75	...	0·8	...	0	0	0	0	2	17	11	0	0
Pasni ...	0000	10	1007·2	...	1007·3	74.5	73·0	72·4	27·0	...	93	...	3·7	...	0	1	7	2	0	0	13	1	6
	0300		1007·8	+1·7	1010·1	78·2	74·9	72·9	28·1	+0·8	84	—2	3·2	—0·1	0	0	3	2	0	1	10	3	11
	1200		1005·2	...	1004·8	85·1	76·6	72·3	27·3	...	66	...	0·0	...	0	0	0	1	0	27	2	0	0

(b) Mean for 29 days only. (R) Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%		Octas	Octas									
Turbat	0000	510	990·6	...	1008·1	78·0	75·4	74·2	28·9	...	89	...	2·8	...	0	0	0	0	6	14	7	0	3
	0300	...	992·4	...	1009·6	81·0	76·7	74·9	29·1	...	80	...	4·3	...	0	0	0	1	5	12	9	0	3
	1200	...	988·2	...	1004·7	101·2	85·1	77·3	33·7	...	50	...	0·6	...	0	1	0	0	12	13	4	0	0
Panjgur	0000	3177	901·6	...	896·1	68·9	58·8	48·0	12·8	...	54	...	0·0	...	4	17	1	0	0	0	1	5	2
	0300	...	902·2	+1·2	896·7	71·7	60·5	48·6	13·5	−0·5	52	−1	0·0	−0·6	2	18	0	0	1	0	1	6	2
	1200	...	899·6	...	894·3	95·4	63·4	28·4	7·2	...	12	...	0·6	...	2	4	0	2	1	2	1	18	0
SIND (Upper)																							
Reti	0000	280	995·8	...	1005·6	75·8	72·2	70·4	24·9	...	84	...	0·0	...	3	1	1	0	16	2	3	1	3
	0300	...	997·4	...	1007·1	80·2	75·1	72·6	27·0	...	78	...	0·0	...	2	1	1	1	12	10	0	0	3
	1200	...	993·7	...	1003·0	103·9	87·3	80·4	36·6	...	50	...	0·0	...	3	0	1	0	6	12	5	3	0
Jacobabad	0000	183	997·6	...	1004·0	78·8	71·8	67·7	23·6	...	70	...	0·0	...	0	2	7	11	6	2	0	1	1
	0300	...	999·8	+1·7	1005·7	81·1	72·8	68·2	23·4	−5·0	68	−5	0·0	−0·5	2	1	7	9	6	2	0	2	1
	1200	...	995·9	...	1002·1	99·7	75·8	62·4	19·4	...	30	...	0·0	...	0	0	0	17	11	2	0	0	0
Sukkur																							
	0300	221	997·7	+1·4	1005·3	79·4	73·6	70·8	25·7	−1·5	75	+2	0·0	−0·4	0	1	0	5	11	12	1	0	0
	1200	...	995·0	...	1002·0	100·9	80·1	70·5	26·7	...	38	...	0·0	...	2	1	0	3	9	12	2	1	0
Padidan	0000	153	998·5	...	1003·8	74·9	71·6	69·5	24·4	...	83	...	0·0	...	0	0	0	13	8	1	0	0	8
	0300	...	999·8	...	1005·1	79·1	73·6	70·7	25·8	...	76	...	0·0	...	0	1	0	25	1	0	0	0	3
	1200	...	997·4	...	1002·3	101·9	80·6	70·1	26·0	...	37	...	0·0	...	1	1	0	12	7	3	0	0	6
SIND (Lower)																							
Umarkot	0000	55	1003·6	...	1005·5	75·5	73·7	72·9	27·6	...	90	...	0·0	...	1	0	0	0	6	13	0	0	10
	0300	...	1004·7	...	1006·4	81·9	76·1	74·1	28·1	...	75	...	0·3	...	3	0	0	0	3	23	1	0	0
	1200	...	1002·0	...	1003·2	97·7	82·5	76·1	30·9	...	51	...	0·4	...	2	0	0	0	3	16	4	1	4
Chhor	0000	19	1004·6	...	1005·3	75·8	73·5	72·2	27·4	...	88	...	0·7	...	0	0	0	0	10	10	1	0	9
	0300	...	1006·1	...	1006·8	80·1	75·6	73·2	28·2	...	80	...	1·6	...	0	1	0	0	9	17	2	0	1
	1200	...	1002·7	...	1003·4	96·0	80·7	73·5	28·0	...	49	...	1·1	...	0	1	0	1	4	18	5	0	1
Hyderabad	0000	96	1001·6	...	1004·7	77·1	72·6	70·2	25·3	...	79	...	0·0	...	1	0	0	0	0	26	0	1	2
	0300	...	1002·7	+0·9	1006·0	79·7	73·9	70·7	26·0	+0·8	74	+2	(b) 0·2	−1·1	(b) 0	2	0	0	0	25	2	0	0
	1200	...	1000·9	...	1004·1	96·1	76·5	65·7	22·2	...	39	...	0·2	...	1	2	1	1	1	23	1	0	0
Karachi (Drigh Road) ...	0000	73	1003·8	...	1006·3	78·0	74·8	73·3	28·6	...	84	...	2·4	...	0	0	0	0	0	4	17	2	7
	0300	..	1005·1	...	1007·6	82·9	75·8	73·8	27·2	...	71	...	3·3	...	0	0	0	0	0	1	23	4	2
	1200	...	1002·8	...	1005·3	87·2	76·2	73·0	25·9	...	58	...	2·2	...	0	0	0	0	2	18	10	0	0
Karachi (Manora) ...	0000	13	1005·8	...	1006·3	78·4	75·4	74·5	28·7	...	86	...	2·8	...	0	0	0	0	0	4	15	0	11
	0300	...	1007·0	+1·2	1007·5	79·8	75·9	74·3	27·6	−1·2	83	−3	3·9	−0·3	0	0	0	0	0	5	20	0	5
	1200	...	1004·9	...	1005·3	83·9	78·0	75·4	30·0	...	74	...	2·9	...	0	0	0	0	0	14	16	0	0
Badin	0000	31	1005·4	...	1006·4	76·7	73·7	72·3	27·1	...	86	...	0·0	...	0	0	0	0	18	4	6	2	0
	0300	...	1006·9	+2·5	1007·9	80·2	75·8	74·1	28·4	+1·2	80	+3	0·9	−2·0	0	1	0	0	7	15	4	3	0
	1200	...	1003·8	...	1004·8	95·0	78·9	71·3	26·4	...	47	...	1·4	...	0	1	0	1	8	11	2	6	1

(b)—Mean of 29 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF SEPTEMBER, 1951

Sub-Division and Station	Hours of Observation	Height of barometer above mean sea level	Mean pressure: Sea level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Departure from normal	Wind direction, Number of observations from:— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Octas	Octas									
HILL-STATIONS (excluding Kashmir and Baluchistan)																							
Murree	0000	7113	784·3	...	795·9	58·6	53·6	49·4	12·3	...	73	...	1·5	...	0	0	1	2	0	2	10	11	4
	0300	...	785·6	+1·1	797·2	64·5	56·3	50·2	12·5	−0·5	62	−5	1·8	−0·4	0	1	0	2	0	1	8	5	13
	1200	...	784·5	...	795·9	69·5	60·0	53·9	14·3	...	58	...	3·4	...	0	0	0	2	1	3	12	5	7
Cherat	0000	4272	867·4	...	895·8	71·1	61·6	54·9	14·9	...	57	...	0·5	...	4	0	0	2	17	1	1	4	1
	0300	...	868·8	+1·5	897·2	72·8	62·9	56·4	15·6	0.0	56	−7	0·4	−1·1	7	0	0	5	11	4	0	3	0
	1200	...	867·3	...	895·1	83·9	66·7	55·6	15·4	...	39	...	1·5	...	1	3	0	6	16	0	1	3	0
Drosh	0000	4806	852·5	...	897·3	68·5	56·7	46·6	10·9	...	46	...	0·7	...	0	0	1	1	0	0	0	0	28
	0300	...	853·4	+0·3	898·3	68·2	56·7	46·9	11·1	−1·7	47	−11	0·7	−0·5	0	0	0	0	0	0	0	0	30
	1200	...	849·3	...	892·5	84·7	61·4	41·5	9·2	...	22	...	3·2	...	1	1	1	1	1	11	10	0	4
Parachinar	0000	5673	825·1	...	795·2	61·8	54·2	48·5	11·2	...	61	...	0·4	...	17	3	1	0	0	0	3	3	3
	0300	...	826·2	+1·0	796·7	69·7	57·1	47·7	11·4	−1·1	46	−10	0·2	−1·2	2	1	2	1	2	1	0	0	21
	1200	...	824·5	...	795·6	77·9	59·9	46·4	11·1	...	34	...	3·1	...	0	3	1	24	0	1	0	1	0
Wana	0000	x																					
	0300	4503	(e) 860·1	...	895·3	70·8	59·8	52·4	13·1	+0·6	52	−2	0·2	−0·6	0	0	0	1	0	0	0	0	29
	1200	...	(d) 857·9	...	891·9	85·1	64·1	48·8	12·0	...	29	...	0·5	...	0	4	3	6	0	0	0	0	17
AFGHANISTAN																							
Jalalabad	0300	1950	930·5	...	995·1	75·6	67·6	63·5	19·8	...	65	...	0·5	...	0	0	0	0	0	0	6	0	24
	1200	...	926·9	...	988·6	94·9	77·9	70·1	25·7	...	46	...	2·3	...	0	2	15	3	0	0	0	0	10
Kabul	0300	5955	820·8		800·1	60·4	49·1	37·8	7·9	+0·3	43	+2	0·4	0·0	2	1	0	2	3	5	8	7	2
	1200	...	818·3	...	798·9	83·5	59·1	40·3	8·4	...	27	...	1·5	...	9	10	5	2	1	1	0	1	1
Kandahar	0300	3462	889·5	...	(e) 893·1	58·9	53·1	48·0	11·5	...	66	...	0·0	...	0	0	0	0	0	0	0	0	30
	1200	...	857·1	...	(d) 890·4	90·0	73·1	64·2	20·9	...	43	...	0·1	...	0	0	0	0	0	6	0	0	24
IRAN																							
Jask	0300	13	1005·4	...	1005·7	83·4	79·0	76·2	31·8	...	81	...	1·3	−0·1	2	1	24	1	0	0	2	0	0
	1200	...	1004·0	...	1004·4	90·3	81·6	74·7	32·8	...	68	...	0·0	...	0	0	1	0	20	7	2	0	0
ARABIA																							
Muscat	0300	20	1006·5	...	1007·0	83·9	80·1	78·6	33·5	...	83	...	0·8	−0·2	4	0	7	1	1	1	0	4	12
	1200	...	1004·5	...	1005·0	85·6	80·7	78·4	33·3	...	80	...	0·4	...	2	0	15	9	2	0	0	1	1
Kuwait*	0500	16	1006·2	...	1006·7	90·8	×	×	×	...	×	...	0·2	...	3	0	0	0	0	2	16	6	3
	1200	...	1003·9	...	1004·4	101·4	×	×	×	...	×	...	0·2	...	4	4	10	2	0	1	1	5	3

(x) Hb. of Wana changed from 4456 ft. to 4503 ft. on 4-9-51. (×) Data not available.
* Observation recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T.
(d) Mean of 27 days. (e) Mean of 26 days.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF SEPTEMBER, 1951

Sub-Division and Staton	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Thunder heard	Hail	Weather Number of days		
																			Visibility Code figure 93 or less		
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hour	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal			Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (North)																					
Pabna	92·7	+1·9	97	5,24	78·8	+2·4	75	6,30	2·76	—5·61	0·61	6	9	—2·1	...	...	...	...	...	...	...
Rajshahi ...	...	...	...	...	...	...	...	...	1·30	—8·48	0·50	6	3	—8·6	...	...	...	...	...	...	...
Sirajganj ...	88·9	...	94	19	79·2	...	76	6,21	3·81	—5·88	1·36	10	6	—5·8	2·3	...	1	...	...	...	...
Bogra	90·3	+1·2	95	4 days.	78·7	+0·8	73	21	3·35	—7·94	0·57	17	8	—4·6	2·4	+1·0	7	...	1	...	...
Dinajpur ...	91·5	+2·8	97	5	78·1	+0·2	75	4days.	5·30	—7·75	1·10	17	11	—1·5	2·1	+0·3	4	...	...	...	...
Rangpur ...	...	...	...	...	...	...	...	...	6·24	—7·86	1·58	14	8	—4·9	...	...	...	...	...	...	...
EAST PAKISTAN (East)																					
Cox's Bazar ...	88·9	+2·5	92	7 days.	76·7	+0·8	74	26 18	22·77	+7·52	8·43	9	14	—0·4	2·8	+0·2	10	...	...	...	...
Chittagong ...	88·3	+1·2	93	10,29	77·1	+0·7	71	17,18	13·32	+0·68	5·91	16	10	—3·0	3·3	—1·4	3	...	...	...	...
Noakhali (Maijdee)	89.4	+2·7	×	×	77·7 (g)	—0·6	×	×	10·08 (g)	—6·2		×	×	×	×	×	×	...	...	...	...
Comilla	86·8	—1·8	91	27,30	78·3	+1·4	75	3	13·99	+2·64	3·12	30	16	+2·3	4·5	+1·3	...	...	...	...	...
Narayanganj ...	91·5	+2·8	96	29	78·9	+0·1	75	6, 19, 30	9·97	+0·21	1·92	12	10	—2·1	3·2	+0·3	...	...	...	...	...
Brahmanbaria ...	89.9	—0·3	94	30	78·0	+1·5	73	19	8·14	—1·46	2·98	3	5	—8·1	2·9	...	2	...	...	...	...
Srimangal ...	89·7	—0·6	94	26,27	74·4	—0·9	70	24	10·92	—0·85	4·88	17	11	—4.9	1·3	—1·2	9	...	...	...	...
Mymensingh ...	88·8	+1·0	94	5	79·3	+1.5	77	20	5·85	—8·24	1·71	12	7	—7·7	2·5	+1·1	1	R	...	...	...
EAST PAKISTAN (Deltaic)																					
Faridpur ...	87·0	—0·8	91	5,17,28	78·6	+0.1	74	6	7·90	—1·36	2·03	10	14	+2·0	3·8	+0·1	2	...	...	...	...
Barisal	89·8	+1·7	94	4 days.	78·9	+0.7	74	13	13·40	+3·32	3·34	10	15	+0·8	2·7	+0·9	9	...	...	...	...
Khulna ...	90·6	+1·6	95	5, 20, 21	79·3	+0.8	76	5, 10, 30	5·92	—2·00	2·05	10	9	—3·2	2·7	+0·1	1	...	...	...	...
Jessore	93·3	+4·0	98	5, 20	†79·3	+1.8	...	...	5·90	—2·58	2·87	10	11	—1·0	2·9	+1·0	2	1	1	...	...
Satkhira ...	91·3	+1·7	95	5,20,22	78·6	+0.3	75	10, 30	7·77	—1·01	2·30	10	15	+2·8	2·0	+0·5	...	...	...	...	...
KASHMIR																					
Srinagar × ...																					
Gulmarg × ...																					
Dras × ...																					
Leh ×																					
Skardu × ...																					
Gilgit (R) ...																					
Mis-gar ...	67·9	...	75	23	41·6	...	36	4	0.62	...	0·27	12	2	...	3·5	...	0	0	0	0	0
Jammu ×																					
Kargil ×																					
Gure z × ...																					
NORTH PUNJAB																					
Lahore ...	101·5	+4·2	106	5,6	76·2	+3·1	73	1, 19, 25	0·00	—2·20	0·00	...	0	—2·5	1·8	+0·5	1	0	0	0	0
Sialkot	98·5	+3·9	103	7	78·1	+4·3	71	24	0·00	—3·43	0·00	...	0	—3·8	2·2	+1·0	2	0	0	0	1
Jhelum	98·6	...	102	7	74·3	...	69	25	0·02	...	0·02	12	0	...	1·5	...	2	0	0	0	1
Rawalpindi ...	98·3	+4·9	101	6	71·2	+1·9	65	1, 8.10	0·49	—3·40	0·21	11	2	—2·6	1·5	+0·2	3	0	0	0	2
Khushab ...	101·2	+2·6	105	17	76·6	+0·5	71	1	0·00	—1·38	0·00	...	0	—2·0	4·5	+0·8	0	0	0	0	1
Lyallpur ...	100·8	+2·7	107	5	76·6	+1·4	74	5days.	0·00	—1·49	0·00	...	0	—1·7	2·5	+0·5	0	0	0	0	0
SOUTH PUNJAB																					
Montgomery ...	102·1	+2·8	107	5	75·7	—0·2	72	8	0·00	—1·27	0·00	...	0	—1·6	1·7	—1·7	0	0	0	0	0
Multan	103·0	+4·3	106	6 days.	78·2	+0·5	74	25	0·00	—0·54	0·00	...	0	—0·7	3·1	+1·4	0	0	0	0	0
Fort Abbas ...	104·6	...	109	5,10	*	...	...	...	0·00	...	0·00	...	0	...	(g) 5·1	..	0	0	0	0	0
Bahawalpur ...	102·7	+2·3	108	13	76·9	+1·2	70	25	0·00	—0·13	0·00	...	0	—0·2	4·2	+1·1	0	0	0	0	0
Khanpur ...	102·7	+0·5	107	6	75·9	—1·1	71	25	0·00	—0·19	0·00	...	0	—0·2	5·6	+0·5	0	0	0	0	0

(R) Register not received. (g) Mean of 24 days. ×—Data not available. (†) Extrapoluted from Khulna. (*) Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF SEPTEMBER, 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
N.-W.F.P. (Upper)																					
Chakdara ...	94·3	...	98	17,22	67·8	...	62	8	0·00	...	0·00	...	0	...	4·2	...	0	0	0	0	0
Peshawar ...	95·9	+0·9	101	18	72·6	+0·8	66	8	0·19	—0·62	0·15	7	1	—0·5	2·4	+1·1	7	0	0	0	3
Landikotal ...	90·5	...	97	17	66·6	...	61	8	0·18	...	0·07	6	0	...	2·6	...	6	0	0	0	0
N.-W.F.P. (Lower)																					
Bannu	99·2	+1·3	103	5, 6	75·7	+2·0	71	14	0·00	—0·63	0·00	...	0	—1·0	2·4	...	0	0	0	0	0
Miranshah ...	93·8	+2·1	97	17, 18	72·6	+1·5	70	28	0·02	—0·71	0·02	6	0	—1·7	*	*	0	0	0	0	0
D.I. Khan ...	102·2	+2·8	107	1	*	...	*	*	0·00	—0·63	0·00	...	0	—0·9	2·1	+0·9	0	0	0	0	0
BALUCHISTAN (North)																					
Fort Sandeman ...	95·4	+2·7	100	17	67·4	+1·2	64	16	0·00	—0·32	0·00	...	0	—0·7	2·5	+0·8	...	...	...	...	...
Hindubagh ...	90·2	...	94	17, 18	58·6	...	51	8	0·00	...	...	...	0	...	(×)	...	...	...	...	...	...
Loralai	90·8	...	94	17	57·7	...	53	27	0·00	—0·19	0·00	...	0	—0·5	3·5	...	...	...	...	...	...
Harnai	...	...	...	...	...	...	...	...	0·00	—0·94	0·00	...	0	—1·4	...	...	...	...	...	...	...
Sibi	105·1	+1·1	111	29	78·7	—0·2	75	26, 27	0·00	—0·13	0·00	...	0	—0·3	2·9	—0·4	...	...	...	...	...
Quetta	88·3	...	91	5 days.	50·8	...	44	11	0·00	...	0·00	...	0	...	3·2	+1·6	...	...	...	...	...
,, (Samangli) ...	89·2	...	92	18	50·0	...	43	10, 13	0·00	...	0·00	...	0	...	4·2	...	...	...	...	...	...
Chaman ...	93·1	+2·3	97	18	65·7	+2·0	52	3	0·00	—0·03	0·00	...	0	—0·1	5·4	+1·7	...	...	...	...	...
Nushki	99·9	...	103	4 days.	74·6	...	69	10, 11	0·00	...	0·00	...	0	...	5·9	...	...	...	...	...	...
Kalat	84·9	+0·9	88	4 days.	52·7	+4·2	47	10, 30	0·00	—0·09	0·00	...	0	—0·2	4·7	+1·0	...	...	...	...	...
Dalbandin ...	101·2	+1·9	104	6, 18	64·4	+2·8	58	13	0·00	0·00	0·00	...	0	0·0	3·6	+0·4	...	...	...	...	3
Nokkundi ...	103·7	+3·2	108	5	73·3	+2·4	68	12	0·00	0·00	0·00	...	0	0·0	7·6	—1·1	...	...	...	...	...
BALUCHISTAN (South)																					
Lasbela (R) ...																					
Ormora ...	86·2	—0·2	90	30	77·3	+1·0	73	29	0·00	—0·01	0·00	...	0	0·0	9·7	+0·4	...	...	...	...	...
Pasni	88·0	—1·2	97	30	73·9	+1·4	71	3, 6	0·00	0·00	0·00	...	0	0·0	7·2	+1·2	...	...	...	...	...
Turbat	103·3	...	113	30	77·2	...	73	12	0·00	...	0·00	...	0	...	7·3	...	...	...	...	...	...
Panjgur ...	97·0	+1·3	100	25	64·5	—0·5	59	12	0·00	—0·04	0·00	...	0	—0·2	3·7	+0·3	...	...	...	...	...
SIND (Upper)																					
Reti	105·1	...	110	29	73·9	...	67	25	0·00	...	0·00	...	0	...	7·7	...	...	...	...	...	...
Jacobabad ...	101·9	—0·4	108	29	77·0	0·0	71	28	0·00	—0·17	0·00	...	0	—0·3	5·9	+1·4	...	...	...	...	...
Sukkur	102·7	+2·3	108	29	76·4	—2·3	73	24	0·00	—0·02	0·00	...	0	—0·1	(×)	...	...	...	...	...	...
Padidan	103·1	...	110	29	73·3	...	69	23, 24, 25	0·00	...	0·00	...	0	...	5·2	...	...	...	...	...	...
SIND (Lower)																					
Umarkot	100·5		110	27, 29	74·0	...	72	22, 23, 24	0·00	...	0·00	...	0	...	6·3	...	...	...	...	...	...
Chhor ...	97·4	...	111	30	73·5	...	72	22, 29	0·00	...	0·00	...	0	...	6·8	0	0	0	0	1	0
Hyderabad	99·4	+2·1	111	29	76·2	—0·2	72	26	0·00	—0·63	0·00	...	0	—0·8	6·8	—0·5	...	...	...	...	...
Karachi (Drigh Road)	90·7	...	109	30	76·9	...	73	22, 28, 29	0·00	...	0·00	...	0	...	10·0	...	...	...	...	...	...
Karachi (Manora)	86·2	+0·6	92	30	77·8	+1·1	75	28, 29, 30	0·00	—0·52	0·00	29	0	—0·5	6·5	—2·2	...	...	...	...	...
Badin	96·9	+2·8	112	30	75·8	—1·4	73	23	0·00	—0·89	0·00	...	0	—0·9	5·7	...	...	...	...	...	...

(×) Data not available. * Data rejected.

R) Register not received.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF SEPTEMBER, 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
HILL-STATION excluding Kashmir and Baluchistan																					
Murree	73·4	+1·1	78	6	56·9	+2·1	52	8	1·15	—4·27	0·47	11	4	—3·2	4·6	+1·3	7	0	0	0	0
Cherat	87·7	+3·7	93	18	67·8	+1·7	60	8	0·76	—1·31	0·27	8	3	+0·1	6·1	+2·0	4	0	0	0	0
Drosh	90·5	+2·5	97	17,18	65·5	+1·1	59	7	0·55	—0·14	0·29	6	2	+0·1	3·8	+0·6	8	0	0	0	0
Parachinar ...	83·7	+2·5	88	17,22	60·1	+1·5	55	8	0·52	—1·59	0·17	8	3	—2·0	3·1	+1·0	11	2	0	0	0
Wana	91·1	+1·5	95	17	62·3	+1·1	58	28	0·13	—0·36	0·13	12	1	—0·4	0·3	...	0	0	0	0	0
AFGHANISTAN																					
Jalalabad ...	97·8	...	106	18	68·8	...	63	13	0·00	...	0·00	...	0	...	1·0	...	0	0	0	0	0
Kabul	86·3	+1·8	90	17,23	52·9	+1·5	47	13	0·00	—0·04	0·00	...	0	—0·2	2·3	+0·7	4	0	0	0	0
Kandahar ...	96·9	...	101	4	50·0	...	43	30	0·00	...	0·00	...	0	...	0·5	...	0	0	0	0	0
IRAN																					
Jask	91·5	—2·1	95	8	81·9	+1·1	79	28	0·00	0·00	0·00	...	0	0·0	9·8	+2·7	0	0	0	0	0
ARABIA																					
Muscat	92·5	+1·8	97	12	82·0	—0·6	76	8	0·00	0·00	0·00	...	0	0·0	2·4	—0·4	0	0	0	0	0
Kuwait * ...	102·7	...	114	4	84·4	...	78	30	0·00	...	0·00	...	0	...	4·7	...	0	0	0	0	0

* Observations recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T.

Regd. No. S. 1452

PAKISTAN WEATHER REVIEW 1951.

MONTHLY WEATHER REPORT

OCTOBER

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Chief Features :—Western disturbances were few and feeble.

(2) In the wake of a heat wave which affected Sind dense low fog invaded Karachi and its suburbs on the 1st evening due to a steep fall in temperature and increased moisture content.

(3) Copious rainfall was recorded at a few stations in the southern districts of East Pakistan on the 2nd and 3rd.

West Pakistan :—Feeble western disturbances moving across the extreme north of West Pakistan during the first three weeks caused a few thunderstorms and light rain in the North-West Frontier Province on the 1st, 2nd, 9th, 12th and 13th and in the north Punjab on the 9th and 19th. However a comparatively active western disturbance which moved during the last week, was responsible for a light spell of wet weather in the North-West Frontier Province between the 25th and 29th, in north Baluchistan on the 28th and in the north Punjab on the 29th.

A heat wave was experienced in lower Sind between the 11th and 15th due to a trough of low lying off Kathiawar—Konkan coast. The trough became diffused by the evening of the 18th, causing incursion of southerly air streams in shallow layers into coastal Sind and the consequent formation of dense fog over Karachi and its suburbs.

Some of the noteworthy amounts of rainfall recorded during the month were :—Cherat 3/4″ on the 9th ; Parachinar 1/2″ on the 1st and 9th ; Jhelum 1/2″ on the 9th and 29th ; Murree 1/2″ on the 9th and 1″ on the 29th ; Drosh 1″ on the 29th.

The mean actual rainfall during the month was in large defect over the north Punjab and the upper North-West Frontier Province while no rain fell elsewhere. The mean maximum and minimum temperatures were in excess with the exception of the maximum temperature being normal over south Baluchistan. The mean relative humidity was in excess over lower Sind, the north Punjab and the lower North-West Frontier Province and normal elsewhere. Skies were clouded as usual over the upper North-West Frontier Province but less clouded elsewhere.

East Pakistan :—The depression with its centre near latitude 15 1/2° N and longitude 86 1/2° E, on the last day of the previous month, moving north north-eastwards crossed Orissa coast on the night of the 1st and lay as a low over Orissa and the adjoining Bengal on the 2nd. It became diffused thereafter. In its association monsoon was active during the first six days and a few stations in the southern districts of East Pakistan reported copious falls on the 2nd and 3rd.

A trough of low appearing in the central Bay of Bengal on the 6th, concentrated into a depression off Orissa coast by the 11th morning and moving inland lay as a low over Orissa on the next day. In its association monsoon was weak from 7th to 10th and active thereafter till the close of the 3rd week.

Some of the noteworthy amounts of rainfall recorded during the month were :—Chittagong 10″, Noakhali and Comilla 3″ each on the 2nd ; Cox's Bazar 7″, Noakhali, Comilla and Mymensingh 3″ each on the 3rd ; Cox's Bazar 6″ and Brahmanbaria 3″ on the 4th; Srimangal and Rangpur 3″ each on the 5th ; Comilla, Narayanganj and Barisal 3″ each on the 16th.

The mean actual rainfall during the month was in large excess over the Eastern and Deltaic sub-divisions and in slight excess over the Northern sub-division average. The mean maximum temperature and the mean relative humidity were normal while the mean minimum temperature was in excess. Skies were more clouded than usual.

Table I contains the Divisional and Sub-Divisional means of rainfall, temperature, humidity and cloud for the 5 chief Divisions and 12 sub-Divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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TABLE I.—DIVISIONAL AND SUB-DIVISIONAL MEANS, OCTOBER 1951

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	mb.	%	
East Pakistan	10·72	5·50	+5·22	+95	+0·4	+2·4	+2·1	+3	+1·3
Mean of East Pakistan	10·72	5·50	+5·22	+95	+0·4	+2·4	+2·1	+3	+1·3
Punjab	0·06	0·19	—0·13	—68	+4·9	+8·1	+2·9	+3	—0·1
N.-W. F. P.	0·02	0·13	—0·11	—85	+4·8	+6·3	+2·7	+2	—0·2
Baluchistan	0·00	0·07	—0·07	—100	+4·6	+5·1	—1·1	0	+0·5
Sind	0·00	0·02	—0·02	—100	+3·9	+3·6	+3·1	+7	+0·2
Mean of West Pakistan excluding Baluchistan	0·03	0·12	—0·09	—75	+4·5	+6·2	+2·9	+4	0·0
East Pakistan North	5·41	4·76	+0·65	+11	+1·5	+2·7	+1·8	+1	+1·5
East Pakistan East	17·42	6·57	+10·85	+165	—0·4	+2·0	+1·7	+3	+1·2
East Pakistan Deltaic	7·71	4·87	+2·84	+58	+0·9	+2·7	+2·8	+4	+1·2
Kashmir*	...	...	...	...	...	...	...	...	...
North Punjab	0·11	0·29	—0·18	—62	+4·4	+8·6	+3·5	+3	—0·2
South Punjab	0·00	0·06	—0·06	—100	+5·5	+7·5	+2·3	+2	—0·1
N.-W. F. P. (Upper)	0·05	0·23	—0·18	—78	+5·1	+5·7	+1·6	—5	+0·1
N.-W. F. P. (Lower)	0·00	0·07	—0·07	—100	+4·7	+6·8	+3·3	+6	—0·3
Baluchistan (North)	0·00	0·09	—0·09	—100	+6·0	+6·0	—2·5	0	—0·1
Baluchistan (South)	0·00	0·00	0·00	0	+1·7	+3·2	+2·1	0	—1·2
Sind (Upper)	0·00	0·07	—0·07	—100	+5·7	+5·1	+1·9	+5	—0·1
Sind (Lower)	0·00	0·02	—0·02	—100	+2·0	+2·2	+4·1	+10	+0·5

*Data incomplete.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER 1951.

Sub Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & m.s.l. or nearest GPKm. level.	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
EAST BENGAL (North)	G.M.T.	Ft.	mbs.	mbs.	mbs.	°F	°F	°F	mb.	mb.	%	%	Octas										
Pabna	0300	...	...	...	...	84·4	79·3	77·0	31·6	+2·2	79	+1											
Sirajganj	0000	49	1005·1	...	1006·8	77·1	76·2	75·5	30·2	...	96	...	3·2	...	0	0	4	1	1	0	0	0	25
	0300	...	1007·5	...	1009·2	81·6	78·1	76·5	31·7	...	85	...	4·1	...	0	1	7	3	0	0	2	0	18
	1200	...	1004·1	...	1005·8	82·1	78·3	76·4	30·9	...	84	...	4·1	...	0	0	2	2	0	0	0	1	26
Bogra	0000	*65	1005·7	...	1007·9	76·5	75·2	74·7	29·5	...	94	...	4·3	...	0	1	1	0	1	0	0	0	28
	0300	63	1007·6	—1·9	1009·8	81·3	77·5	75·6	29·9	+1·3	84	+4	4·5	+1·9	2	5	13	6	1	1	1	0	2
	1200	...	1004·2	...	1006·3	83·2	78·2	76·3	30·5	...	81	...	3·9	...	0	0	6	4	0	1	0	0	28
Dinajpur	0000	123	1005·0	...	1009·3	75·1	73·9	73·3	28·2	...	95	...	3·3	...	0	3	2	0	0	0	0	0	26
	0300	...	1006·8	—0·7	1011·0	82·4	77·2	74·9	29·4	+1·9	79	—2	3·8	+1·2	0	2	7	0	0	0	0	0	22
	1200	...	1003·5	...	1007·7	83·4	77·8	75·4	29·7	...	77	...	2·4	...	0	1	3	0	0	0	0	0	27
EAST BENGAL (East)																							
Cox's Bazar	0000	38	1008·0	...	1009·3	75·7	74·9	74·4	29·2	...	95	...	4·3	...	0	0	1	0	3	0	0	0	21
	0300	...	1009·3	—1·0	1010·6	83·9	78·8	76·3	31·6	+1·3	79	—1	3·6	+0·2	0	0	0	3	6	0	0	0	27
	1200	...	1006·3	...	1007·6	82·3	78·2	76·3	30·9	...	83	...	3·7	...	0	0	0	3	6	0	1	0	21
Chittagong	0300	87	1007·4	—1·4	1010·4	83·0	77·9	75·3	30·5	+0·9	79	—4	4·5	+0·9	2	6	7	7	3	1	0	0	5
	1200	...	1004·1	...	1007·1	82·3	78·3	76·5	30·9	...	83	...	4·1	...	1	2	1	3	7	4	7	3	3
Noakhali (Manjdi)	0000	22	×	...	×	78·3 (a)	76·7(a)	75·9(a)	30·5(a)	...	93(a)	...	4·4(a)	...	×	...	...	...	...	...	...	...	...
	0300	...	×	...	×	81·2(a)	78·1(a)	77·0(a)	31·4(a)	+0·8	87(a)	+4	5·0(a)	+2·0	×	...	...	...	...	...	...	...	...
	1200	...	×	...	×	83·7(a)	78·5(a)	76·4(a)	31·6(a)	...	79(a)	...	5·0(a)	...	×	...	...	...	...	...	...	...	...
Comilla	0000	29	1007·5	...	1008·5	76·5	75·8	75·3	30·9	...	98	...	4·6	...	0	3	0	4	5	0	0	0	19
	0300	...	1009·4	—1·4	1010·4	81·6	77·5	75·7	30·9	+0·9	83	+7	4·6	+1·8	2	2	0	12	5	0	1	2	7
	1200	...	1005·7	...	1006·7	82·5	79·3	77·9	33·6	...	87	...	4·1	...	5	1	1	3	6	1	0	3	10
Narayanganj	0000	26	1006·9	...	1007·7	78·6	77·0	76·6	31·5	...	93	...	3·3	...	0	1	1	0	3	2	0	1	25
	0300	...	1008·4	—2·5	1009·3	84·3	78·8	76·5	30·8	+1·7	77	0	5·3	+1·9	0	1	4	7	7	3	0	2	3
	1200	...	1004·5	...	1005·3	83·8	78·7	76·2	31·6	...	79	...	3·9	...	0	0	5	1	5	1	1	4	18
Brahmanbaria	0000	32	1008·2	...	1009·3	77·2	75·9	75·5	29·5	...	94	...	3·9	...	1	1	6	4	3	0	0	0	16
	0300	...	1009·6	...	1010·7	82·6	78·0	75·6	31·3	+2·1	81	+5	4·3	...	1	2	7	4	3	0	0	1	13
	1200	...	1006·5	...	1007·6	83·5	78·7	76·6	30·5	...	80	...	3·2	...	0	1	0	0	4	0	0	0	26
Srimangal	0000	69	1006·1	...	1008·5	72·0	71·5	70·4	26·1	...	96	...	4·9	...	0	1	1	0	2	0	0	0	27
	0300	...	1008·1	—1·8	1010·5	79·3	76·6	75·3	30·0	+1·6	88	+4	4·7	+1·5	0	1	6	2	2	0	1	2	17
	1200	...	1004·4	...	1006·8	80·0	78·1	77·3	31·9	...	92	...	4·5	...	1	3	0	4	2	0	0	0	23
Mymensingh	0000	62	1006·3	...	1008·5	76·9	76·0	75·9	30·2	...	95	...	3·9	...	0	0	7	0	0	0	0	0	24
	0300	...	1008·3	—1·7	1010·5	81·2	78·7	77·6	32·2	+3·4	89	+8	4·6	+1·1	0	0	13	0	0	0	0	0	17
	1200	...	1004·8	...	1007·0	83·6	79·7	78·1	33·2	...	83	...	4·6	...	0	0	6	0	0	0	1	0	29
EAST BENGAL (Deltaic)																							
Faridpur	0000	46	1006·4	...	1008·0	76·7	76·1	75·5	30·9	...	98	...	5·0	...	0	0	0	2	3	1	1	0	24
	0300	...	1008·2	—1·6	1009·8	82·7	78·6	77·0	32·0	+2·8	83	+7	4·5	+2·1	2	1	4	6	6	1	1	2	4
	1200	...	1004·5	...	1006·1	83·2	79·0	77·1	32·0	...	83	...	5·1	...	1	1	1	5	5	0	1	0	17
Barisal	0000	11	1007·3	...	1007·7	77·7	76·8	76·4	31·3	...	95	...	4·4	...	0	0	3	2	1	4	0	0	21
	0300	...	1009·4	—1·6	1009·8	83·3	79·4	77·8	32·0	+1·8	83	+4	4·7	+1·7	1	5	1	7	6	3	2	3	1
	1200	...	1006·1	...	1006·5	83·0	78·7	76·8	31·3	...	81	...	4·9	...	2	1	1	4	6	2	1	0	4
Khulna	0000	16	1007·5	...	1008·0	78·0	76·9	76·6	31·3	...	95	...	3·0	...	0	0	3	3	3	1	0	0	3
	0300	...	1009·6	—1·6	1010·1	84·3	79·2	77·1	31·6	+3·1	79	+5	3·3	—0·1	0	0	5	5	6	2	4	1	8
	1200	...	1006·6	...	1007·2	83·4	78·4	76·5	30·5	...	79	...	3·9	...	0	1	3	4	2	3	0	0	16
Jessore	0000	26	1007·1	...	1008·0	76·6	75·8	75·3	30·2	...	95	...	2·0	...	0	1	3	1	1	2	0	0	23
	0300	...	1008·4	—2·4	1009·3	83·7	79·3	77·5	32·4	+3·4	81	+3	3·0	+0·2	0	2	0	10	5	6	1	0	14
	1200	...	1005·7	...	1006·6	83·3	78·7	76·5	31·3	...	81	...	4·1	...	0	0	6	2	6	2	2	0	17
Satkhira	0000	16	1007·0	...	1007·6	78·2	77·0	76·4	31·3	...	95	...	4·5	...	0	3	0	0	0	4	0	2	22
	0300	...	1009·0	—2·1	1009·5	83·9	79·4	77·6	32·4	+3·1	81	+3	5·1	+2·2	0	6	0	6	4	10	0	4	4
	1200	...	1005·6	...	1006·1	84·7	82·9	81·6	37·7	...	92	...	6·5	...	0	2	0	7	0	4	0	2	16

* The observation recorded from a distant site by P.B.O. staff.

× Data not available.

(a) Means for 30 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure			Mean temperature of the air & humidity							Total Cloud amount		Wind direction Number of observations from :—								
			Stn. level reduced to standard temp. and gravity	Departure from normal	Reduced to standard temp. & M.S.L. or nearest GPKm. level.	Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Ft.	mbs.	mbs.	mbs.	°F	°F	°F	mbs.	mbs.	%	%	Octas										
KASHMIR																							
Srinagar†	0000	5205																					
	0300																						
	1200																						
Gulmarg†	0000	8709																					
	0300																						
	1200																						
Drass†	0000	10059																					
	0300																						
	1200																						
Leh†	0000	11529																					
	0300																						
	1200																						
Skardu†	0000	7505																					
	0300																						
	1200																						
Gilgit†	0000	4890																					
	0300																						
	1200																						
Misgar	0000	10190	702·5	...	706·2	38·6	32.3	22.8	4·2	...	54	...	1.9	...	1	0	1	0	0	0	4	0	25
	0300	...	703·5	...	707·3	40·7	32.8	20.1	3·9	...	45	...	1.6	...	0	0	1	0	0	0	0	0	30
	1200	...	700·1	...	703·7	53·9	38.8	18.3	3·4	...	24	...	3.0	...	0	0	19	0	0	0	4	0	8
NORTH PUNJAB																							
Lahore	0000	702	982·8	...	1007·3	69·5	65·4	62·9	19·5	...	80	...	0.1	...	0	2	1	0	0	1	0	0	27
	0300	...	984·5	—2.3	1008·7	77·6	68·3	62·6	19·4	+3.5	60	+5	0.3	—0.3	1	1	1	9	1	0	0	0	18
	1200	...	981·6	...	1005·1	91·9	74·9	65·6	21·8	...	43	...	0.5	...	2	0	0	2	0	0	1	3	23
Sialkot	0000	830	978·4	...	1007·1	73·9	66·1	60·9	18·4	...	63	...	0.7	...	0	15	5	1	0	0	0	2	8
	0300	...	980·8	—2.1	1009·2	78·4	68·1	62·0	18·9	+3.1	56	—6	0.7	+0.1	0	11	4	8	3	1	0	1	3
	1200	...	977·1	...	1004·9	90·2	72·6	61·8	19·4	...	40	...	1.5	...	0	2	0	0	1	1	1	5	21
Jhelum	0000	765	981·1	...	1007·9	68·4	64·7	62·3	18·5	...	81	...	0.5	...	1	0	1	1	0	1	0	2	25
	0300	...	982·7	...	1009·2	74·8	66·8	61·8	18·8	...	64	...	0.6	...	1	0	1	4	0	1	0	3	21
	1200	...	979·8	...	1005·3	91·5	72·9	62·0	19·2	...	39	...	1.5	...	0	0	0	1	2	6	1	1	20
Rawalpindi	0000	1676	951·2	...	1009·1	66·1	59·9	55·3	15·2	...	70	...	0.0	...	1	0	0	0	0	0	0	0	30
	0300	...	952·3	—2.4	1009·7	72·3	62·2	55·3	15·0	+2.2	56	+4	0.9	0.0	2	0	0	0	1	0	0	0	28
	1200	...	950·0	...	1005·7	86·1	68·2	57·2	16·3	...	38	...	0.8	...	0	0	0	0	0	1	5	0	25
Khushab	0000	616	985·9	...	1007·4	72·7	64·3	58·7	16·8	...	61	...	0.0	...	2	3	9	3	1	1	1	0	11
	0300	...	987·3	—2.9	1008·6	78·7	68·1	61·5	18·7	+5.3	56	+4	0.2	—0.4	0	8	12	2	0	3	1	1	4
	1200	...	984·4	...	1004·9	95·6	76·3	66·2	22·2	...	39	...	0.5	...	1	1	6	11	8	3	0	0	1
Lyallpur	0000	605	985·2	...	1006·2	72·2	64·6	60·2	18·0	...	65	...	0.2	...	1	1	3	5	3	1	0	0	17
	0300	...	986·8	—3.4	1007·8	74·5	66·3	61·2	17·8	+3.2	63	+8	0.4	—0.3	1	7	2	4	8	1	0	0	8
	1200	...	984·1	...	1004·3	93·6	73·4	62·0	18·9	...	36	...	0.4	...	1	1	2	4	4	1	1	0	17
SOUTH PUNJAB																							
Montgomery	0000	558	987·4	...	1006·8	71·5	65·5	61·7	18·7	...	71	...	0.2	...	0	0	0	0	0	4	2	0	25
	0300	...	989·0	—2.5	1008·2	77·9	68·0	61·8	18·9	+2.6	58	—2	0.0	—0.4	0	0	0	1	2	4	1	0	23
	1200	...	986·0	...	1004·5	96·7	73·6	64·5	20·7	...	35	...	0.3	...	0	0	0	1	0	0	2	0	28
Multan																							
	0300	413	993·6	—2.9	1007·9	77·2	66·3	58·9	17·2	0.0	54	—5	0.5	+0.1	3	0	1	0	12	2	0	2	11
	1200	...	991·1	...	1004·8	97·3	73·6	60·2	17·5	...	30	...	0.3	...	1	2	0	1	18	0	0	0	9
Fort Abbas	0000	475	*	...	*	74·3(a)	68·3	65·8	20·9	...	72	...	0.0	...	0	2	0	1	0	25	0	0	3
	0300	...	*	...	*	82·0	73·4	68·9	22·4	...	65	...	0.0	...	0	0	0	2	0	27	0	1	1
	1200	...	*	...	*	100·3(a)	*	*	*	...	*	...	0.0	...	0	0	0	0	0	27	0	2	2

* Data rejected. (a) Mean of 30 days. † Data not available.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Station level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & m.s.l. or nearest GP Km. level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction Number of observations from :— N	NE	E	SE	S	SW	W	NW	calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G·M.T.	feet	mbs	mbs	mbs	°F	°F	°F	mbs	mbs	%	%	Octas										
Bahawalpur	0300	384	994·7	—3·2	1007·9	74·7	67·2	62·5	19·4	+2·9	66	+11	0·2	—0·2	6	0	0	1	7	10	0	0	7
	1200	...	991·7	...	1004·6	95·6	79·6	72·6	27·3	...	48	...	0·1	...	0	0	0	0	0	7	0	0	24
Khanpur	0300	297	997·5	—3·4	1007·9	77·3	67·0	60·1	18·0	+3·6	57	+4	0·3	+0·1	1	1	1	1	3	16	4	3	1
	1200	...	994·9	...	1004·8	97·7	73·8	58·4	17·6	...	29	...	0·2	...	4	0	1	0	0	10	8	7	1
N. W. F.-P. (Upper)																							
Chakdara	0000	2197	933·9	...	1009·7	64·2	55·7	48·6	11·7	...	57	...	0·3	...	4	1	1	5	2	3	2	11	2
	0300	...	934·6	...	1010·6	67·8	57·9	50·3	12·4	...	53	...	0·2	...	2	2	1	1	5	4	2	4	10
	1200	...	931·2	...	1004·4	85·5	67·7	56·8	15·9	...	37	...	0.3	...	2	4	1	0	8	6	7	0	3
Peshawar	0000	1175	967·5	...	1008·2	68·5	58·5	49·4	12·3	...	52	...	0·5	...	2	0	0	0	7	9	0	2	11
	0300	...	969·1	—2·9	1009·5	73·8	61·9	52·1	13·5	+1·6	47	—5	1·1	+0·1	1	0	0	1	7	4	0	2	16
	1200	...	966·0	...	1005·3	87·1	68·9	55·9	15·9	...	37	...	3·0	...	6	7	3	1	0	0	1	2	11
Landi kotal	0000	3503	892·0	...	896·9	62·9	55·4	49·0	11·9	...	61	...	0·5	...	0	1	0	1	0	2	0	2	25
	0300	...	893·1	...	898·0	69·1	59·3	51·7	13·3	...	55	...	0·7	...	0	1	0	2	0	2	0	3	23
	1200	...	890·8	...	895·4	81·6	65·7	55·1	15·1	...	41	...	2·5	...	0	6	1	15	0	3	0	3	3
N. W. F.-P. (Lower)																							
Bannu	0000	1264	964·4	...	1008·0	71·1	62·9	56·5	15·9	...	62	...	0·1	...	2	0	4	1	0	0	2	2	20
	0300	...	965·2	...	1008·6	73·9	63·9	54·6	15·8	+3·5	55	+4	0·5	—0·1	4	2	1	0	0	0	3	3	18
	1200	...	962·6	...	1004·5	91·4	70·6	56·2	16·1	...	31	...	0·9	...	1	5	9	13	0	0	0	1	2
Miranshah	0000	3026	907·6	...	897·2	70·6	57·2	45·3	10·6	...	41	...	0·5	...	1	13	9	6	0	0	0	0	2
	0300	...	907·4	...	897·1	73·0	58·3	44·7	10·7	+3·5	39	—4	0·7	...	2	0	1	0	0	1	0	1	26
	1200	...	905·1	...	895·2	87·7	64·9	48·2	11·7	...	26	...	1·4	+0·2	0	7	15	9	0	0	0	0	0
D. I. Khan	0000	570	986·5	...	1006·5	70·9	64·5	59·7	17·9	...	69	...	0·2	...	0	9	0	1	0	0	0	0	21
	0300	...	988·6	—2·8	1008·6	71·6	65·2	60·5	18·3	+3·0	69	+8	0·0	—0·5	0	8	0	1	0	0	0	1	21
	1200	...	985·5	...	1004·3	95·8	75·1	63·6	20·3	...	36	...	0·3	...	1	6	1	1	1	0	0	2	19
BALUCHISTAN (North)																							
Fort Sandeman	0300	4614	860·4	—0·7	899·3	67·9	52·9	36·4	7·7	+1·8	33	—16	0.7	+0·1	0	0	0	0	1	0	1	0	29
	1200	...	858·1	...	895·8	86·0	58·3	28·3	5·5	...	13	...	0.9	...	0	1	0	0	3	7	5	2	13
Hindubagh	0000	5909	821·0	...	797·5	56·2	45·8	34·3	6·7	...	43	...	0.1	...	0	0	1	0	0	2	7	7	14
	0300	...	822·5	...	798·8	64·0	50·1	36·4	7·3	...	36	...	0.3	...	0	0	0	1	1	12	5	3	9
	1200	...	819·8	...	796·1	79·3	54·9	31·3	5·7	...	17	...	1.1	...	0	0	3	1	2	11	8	5	1
Loralai	0000	4699	855·7	...	897·9	58·3	49·7	40·8	8·6	...	53	...	0,0	...	0	0	0	1	1	2	10	2	15
	0300	...	856·7	...	898·7	63·3	54·6	41·3	10·9	...	56	...	0.2	...	0	0	0	0	0	6	7	3	15
	1200	...	855·1	...	895·7	81·1	63·2	46·8	12·4	...	34	...	1.4	...	0	0	0	7	4	7	1	3	9
Sibi	0000	441	991·1	...	1006·4	75·9	61·3	48·6	12·5	...	39	...	0.1	...	1	2	1	0	0	0	0	2	25
	0300	...	992·7	—2·5	1007·9	77·1	62·0	49·0	12·1	+2·5	40	+6	0.4	0·0	1	3	0	1	0	0	0	3	23
	1200	...	989·2	...	1003·6	101·7	68·6	39·6	8·4	...	12	...	0.8	...	0	0	0	6	6	15	0	2	2
Quetta	0300	5490	833·8	—2·3	798·3	59·3	49·9	41·4	8·7	+2·6	51	+2	0.5	...	2	2	1	3	2	2	1	1	17
	1200	...	831·3	...	797·1	79·0	57·6	40·0	8·5	...	23	...	0.1	...	7	2	0	2	3	0	3	12	2
Quetta (Samungli)	0000	5253	842·5	...	798·5	48·5	42·1	35·6	6·7	...	45	...	0.2	...	1	0	7	18	3	0	0	0	2
	0300	...	843·5	...	800·3	56·8	48·2	40·6	8·3	...	53	...	0.5	...	0	0	2	7	2	2	0	1	17
	1200	...	840·8	...	799·1	80·0	59·0	43·0	9·5	...	27	...	1.0	...	3	1	1	2	1	1	6	16	0
Chaman	0000	4311	868·4	...	898·4	67·0	52·8	37·7	8·0	...	3.6	...	0.3	...	0	0	17	11	1	1	1	0	0
	0300	...	870·1	—1·4	899·7	70·7	55·7	41·4	9·0	+3·1	35	+2	0.3	—0·3	1	1	8	11	2	4	1	0	3
	1200	...	867·7	...	896·6	83·9	64·9	49·5	13·3	...	34	...	0.3	...	2	0	0	1	0	11	9	7	1

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Station level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & m.s.l. or nearest GP Km. level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	mbs.	mbs.	mbs.	°F	°F	°F	mb.	mb.	%	%	Octas										
Nushki	0000	3412	901·6	...	903·2	72·7	56·6	41·3	9·1	...	34	...	0·2	...	1	8	12	2	1	1	0	0	6
	0300	...	903·2	...	904·9	76·4	58·9	44·4	9·9	...	31	...	0·3	...	0	7	16	4	1	1	0	2	0
	1200	...	900·1	...	901·8	91·1	66·9	49·2	12·7	...	26	...	0·5	...	0	0	1	0	1	4	6	18	1
Kalat	0000	6616	801·9	...	799·3	49·4	44·1	38·9	8·3	...	68	...	0·0	...	0	0	0	7	0	0	0	0	24
	0300	...	802·8	+0·4	800·2	53·4	47·1	41·1	9·2	+3·3	65	+20	0·0	—0.4	1	0	1	2	27	0	0	0	0
	1200	...	800·8	...	798·4	75·4	62·3	54·4	14·6	...	48	...	0·7	...	7	2	1	1	5	0	0	15	0
Dalbandin	0000	2785	915·7	...	897·4	64·2	51·7	38·5	8·0	...	39	...	0·1	...	0	5	0	5	0	1	1	4	15
	0300	...	917·1	—1·9	898·8	65·4	52·1	38·5	7·6	+1·8	36	—2	0·2	—0.4	0	0	0	0	0	0	0	1	30
	1200	...	914·1	...	896·7	92·9	66·1	46·2	10·7	...	20	...	0·6	...	0	1	1	9	1	8	2	3	6
Nokkundi	0000	2229	932·5	...	1007·9	71·4	55·4	39·6	8·6	...	31	...	0·5	...	11	7	2	1	0	0	0	9	1
	0300	...	934·5	...	1009·9	73·1	57·4	41·8	10·3	+2·3	35	—9	0·5	—0.1	8	9	1	0	0	1	0	4	8
	1200	...	931·6	...	1003·8	95·4	74·8	63·4	21·3	...	39	...	1·2	...	4	0	3	7	4	2	1	4	6
BALUCHISTAN (South)																							
Las Bela (R)	0000	292	...																				
	0300	...																					
	1200	...																					
Ormara	0000	15	1007·6	...	1007·7	76·4	72·3	69·9	25·4	...	81	...	0·0	...	1	0	3	1	0	0	19	0	7
	0300	...	1009·3	...	1009·8	77·5	71·8	68·4	24·4	+1·8	75	—4	0·0	—2.0	1	0	4	0	1	0	17	1	7
	1200	...	1006·4	...	1006·9	85·7	75·9	70·7	25·6	...	61	...	0·0	...	0	0	0	1	2	0	25	2	1
Pasni	0000	10	1009·1	...	1009·4	71·4	67·5	64·5	21·2	...	80	...	0·5	...	2	0	3	0	0	2	16	4	4
	0300	...	1010·1	—1·7	1010·4	75·8	70·7	67·1	23·7	+2·0	77	—1	0·6	—1·1	1	0	4	0	0	3	13	6	4
	1200	...	1007·3	...	1007·6	86·7	74·7	67·5	23·6	...	55	...	0·1	...	1	0	0	2	0	23	5	0	0
Turbat	0000	510	993·2	...	1010·6	74·9	68·6	64·1	21·4	...	72	...	0·5	...	0	2	6	3	2	5	7	1	5
	0300	...	994·8	...	1012·2	79·1	70·7	64·6	21·6	...	64	...	2·2	...	1	5	5	1	2	5	7	0	5
	1200	...	992·2	...	1008·0	99·1	80.2	69·4	26·3	...	41	...	0·2	...	1	3	0	2	6	11	8	0	0
Panjgur	0000	3177	904·0	...	898·4	67·6	55·8	43·4	10·5	...	45	...	0·0	...	4	18	0	0	0	3	4	2	0
	0300	...	904·6	—1.8	899·0	64·5	54·4	42·2	10·3	+2·5	51	+5	0·0	—0·4	8	21	1	0	0	0	0	1	0
	1200	...	902·2	...	896·9	89·4	62·7	34·8	10·0	...	18	...	0·3	...	1	1	0	0	0	11	5	13	0
SIND (Upper)																							
Reti	0000	280	997·6	...	1007·5	71·4	63·6	57·9	16·6	...	62	...	0·0	...	3	0	0	2	20	0	3	1	2
	0300	...	999·3	...	1009·1	74·9	67·3	62·3	19·5	...	66	...	0·1	...	0	2	0	3	12	3	0	1	10
	1200	...	996·2	...	1005·5	101·4	80·7	69·4	26·6	...	39	...	0·2	...	1	1	0	0	5	5	13	5	1
Jacobabad	0000	183	999·7	...	1006·2	74·3	64·8	57·5	16·6	...	58	...	0·0	...	2	1	12	10	1	2	2	1	0
	0300	...	1001·6	—2.9	1008·6	77·3	66·1	57·8	16·9	+0·5	53	—1	0·2	—0·1	1	5	5	7	5	1	3	3	1
	1200	...	998·4	...	1004·4	96·4	71·5	51·2	15·1	...	23	...	0·3	...	0	0	0	12	12	4	1	2	0
Sukkur	0300	221	1000·0	—3.4	1007·7	76·1	69·0	64·8	21·0	+3·4	69	+10	0·2	0·0	0	3	2	8	4	8	4	4	6
	1200	...	997·3	...	1004·7	97·3	76·2	64·8	20·9	...	35	...	0·2	...	1	2	0	0	4	10	7	1	5
Pad Idan	0000	153	1000·4	...	1005·8	70·9	64·7	61·0	18·1	...	71	...	0·0	...	0	1	1	9	3	1	1	0	15
	0300	...	1002·5	...	1007·7	74·8	67·3	62·2	19·4	...	66	...	0·5	...	1	1	0	7	2	0	0	0	20
	1200	...	999·7	...	1004·8	100·4	72·7	54·0	14·9	...	22	...	0·2	...	2	0	0	1	5	6	2	1	14
SIND (Lower)																							
Umarkot	0000	55	1005·0	...	1007·0	73·3	69·8	67·5	23·3	...	83	...	0·3	...	1	0	1	0	6	9	0	1	13
	0300	...	1006·3	...	1008·3	78·6	72·7	69·2	24·6	...	74	...	0·3	...	1	1	0	0	2	16	0	0	11
	1200	...	1003·4	...	1005·2	98·2	79·7	71·7	26·2	...	42	...	0·0	...	2	0	0	0	0	15	6	6	2
Chhor	0000	19	1006·4	...	1007·1	71·4	68·9	67·1	23·0	...	87	...	0·9	...	0	0	0	0	6	9	0	0	16
	0300	...	1008·2	...	1008·9	77·3	72·3	69·4	24·8	...	77	...	1·7	...	1	0	0	0	12	9	0	1	8
	1200	...	1004·7	...	1005.3	96.3	80·0	72·5	27·3	...	47	...	0·4	...	1	0	0	0	6	20	2	0	2

R.—Register not received.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF OCTOBER 1951.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean Pressure: Stn. level reduced to standard temp. and gravity	Mean Pressure: Departure from normal	Mean Pressure: Reduced to standard temp. & m.s.l. or nearest GP Km. level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
Hyderabad	0000	96	1003·5	...	1006·9	74·3	67·2	66·5	19·6	...	68	...	0·2	...	1	0	0	0	0	20	1	0	9
	0300	...	1005·1	—2.7	1008·5	76·8	71·3	67·6	23·8	+5·3	75	+14	0·8	+0·3	1	0	1	0	0	21	0	1	7
	1200	...	1002·7	...	1005·9	98·4	74·9	61·2	19·9	...	30	...	0·3	...	0	2	1	1	1	23	2	0	1
Karachi (Airport) (1) ...	0000	73	1005·5	...	1008·0	75·4	71·8	69·5	25·1	...	83	...	1·2	...	0	0	0	0	0	3	11	2	13
	0300	...	1007·1	...	1009·7	76·9	72·3	69·5	25·0	...	79	...	2·2	...	1	0	0	0	0	0	14	2	14
	1200	...	1004·6	...	1007·1	89·0	76·3	69·4	25·2	...	55	...	0·4	...	0	0	0	0	3	12	13	3	0
Karachi (Manora)	0000	13	1007·7	...	1008·2	75·9	73·4	72·2	27·0	...	88	...	0·9	...	0	0	0	0	0	2	8	1	20
	0300	...	1009·1	—2.2	1009·5	77·2	74·1	72·5	27·4	+3·0	86	+6	2·1	+0·7	0	0	0	0	0	1	10	2	18
	1200	...	1006·7	...	1007·2	81·9	77·3	75·3	29·9	...	81	...	0·7	...	0	0	0	0	2	11	18	0	0
Badin	0000	31	×	...	1006·8	74·6 (f)	×	64·7	×	...	85	...	0·0	...	0 (f)	1	0	0	0	14	5	3	2
	0300	...	×	...	1008·5	78·9 (f)	×	70·8	×	...	76	+8	0·5	—0·5	0 (f)	2	0	1	1	14	7	0	0
	1200	...	×	...	1005·7	95·6	×	64·3	×	...	35	...	0·0	...	0	1	0	0	2	15	1	4	1
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN.																							
Murree	0000	7113	785·3	...	797·0	56·5	47·5	37·9	7·2	...	52	...	0·6	...	0	1	1	4	0	4	13	4	4
	0300	...	786·7	—0.5	798·3	61·7	50·7	40·3	7·1	0·0	47	+1	1·1	0·0	2	3	1	2	2	0	8	7	6
	1200	...	785·7	...	797·3	64·6	53·2	43·5	8·7	...	47	...	2·2	...	0	1	1	1	1	3	13	4	7
Cherat	0000	4272	868·9	...	897·5	68·1	56·9	47·7	11·3	...	48	...	0·3	...	6	1	1	3	15	1	1	2	1
	0300	...	870·3	—1.3	898·9	69·7	57·9	48·6	11·6	+2·7	47	—1	0·5	—0·4	13	0	2	3	7	3	1	2	0
	1200	...	868·9	...	897·0	78·4	62·2	49·9	12·6	...	38	...	1·7	...	3	1	1	5	19	0	0	2	0
Drosh	0000	4806	855·0	...	900·5	62·4	51·6	40·2	8·7	...	44	...	0·7	...	0	2	8	3	0	0	0	0	18
	0300	...	856·5	—1.4	902·1	60·4	50·9	40·4	8·9	+1·0	49	—8	1·8	+0·4	0	1	1	0	0	0	0	0	29
	1200	...	851·6	...	895·4	77·6	57·3	36·5	7·9	...	24	...	3·2	...	0	1	3	2	2	13	9	0	1
Parachinar	0000	5673	826·5	...	796·3	57·0	48·7	40·5	8·8	...	54	...	0·4	...	15	3	0	0	0	0	1	4	8
	0300	...	827·9	—1.0	798·0	65·1	52·5	40·9	9·0	+2·0	43	—2	1·2	+0·3	4	4	0	1	1	1	2	0	18
	1200	...	826·7	...	797·4	74·5	55·5	38·5	8·3	...	29	...	3·4	...	0	4	1	23	1	0	0	0	2
Wana	0300	4503	†	...	†	63·4	51·9	40·0	8·6	+2·1	42	—4	0·7	+0·4	0	0	0	1	0	1	0	1	28
	1200	...	†	...	†	80·2	59·1	41·0	8·6	...	24	...	0·5	...	0	1	4	2	0	0	1	0	23
AFGHANISTAN																							
Jalalabad	0300	1950	933·3	...	999·0	69·1	61·2	56·3	15·3	...	62	...	0·9	...	0	0	0	1	0	7	11	0	12
	1200	...	929·8	...	992·3	89·6	72·6	63·7	20·4	...	43	...	2·6	...	0	4	12	2	0	0	4	0	9
Kabul	0300	5955	822·6	...	801·7	53·9	44·4	33·6	6·6	+1·9	47	+1	1·7	+0·8	2	1	2	0	6	8	7	5	0
	1200	...	820·2	...	800·3	74·1	54·2	36·6	7·2	...	25	...	3·8	...	11	11	4	1	1	0	0	2	1
Kandahar	0300	3462	893·2	...	896·7	56·0	51·4	48·0	11·1	...	73	...	0·7	...	0	0	0	0	0	1	0	0	30
	1200	...	890·2	...	893·5	82·0	66·2	57·3	15·5	...	41	...	0·5	...	0	1	0	0	0	8	0	0	22
IRAN																							
Jask	0300	13	1008·9	...	1009·3	79·9	75·3	72·8	27·9	...	80	...	0·2	—0·5	0	9	17	0	0	0	4	0	1
	1200	...	1007·9	...	1008·3	90·2	81·6	78·0	32·9	...	68	...	0·4	...	0	0	4	0	8	7	12	0	0
ARABIA																							
Muscat	0300	20	1009·9	...	1010·4	86·1	76·8	72·1	26·5	...	63	...	0·4	—0·2	1	0	0	1	1	0	2	16	10
	1200	...	1007·7	...	1008·2	87·4	78·0	73·9	28·4	...	63	...	0·7	...	2	1	7	3	4	0	1	13	9
Kuwait*	0500	16	1011·6	...	1012·1	80·3	×	×	×	...	×	...	0·5	..	8	1	1	1	1	3	8	4	8
	1200	...	1009·4	...	1009·8	88·4	×	×	×	...	×	...	0·8	...	2	6	5	7	0	0	1	5	10

(×) Data not available. * Observation recorded at 0500 hrs. G.M.T. (f) Mean of 25 days. † Data rejected.

(1) Same obsy. was previously designated as "Karachi Drigh Road".

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF OCTOBER 1951.

Sub-division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST BENGAL (NORTH)																					
Pabna	91·7	+1·4	97	20	75·9	+3·5	71	31	7·62	+3·23	1·72	27	14	+8·5	...	...	0	0	0	0	0
Rajshahi ...	...	...	...	...	...	...	...	...	1·10	—2·67	0·80	16	3	—1·5	...	...	0	0	0	0	0
Sirajganj ...	87·3	...	92	10	75·7	...	71	18, 31	12·30	+7·59	3·10	16	12	+6·8	1·4	...	1	0	2	0	0
Bogra	88·6	+0·8	93	15, 19, 20	75·4	+2·3	68	18	3·40	—1·73	1·60	18	11	+5·5	2·0	+0·9	5	1	5	0	0
Dinajpur ...	89·6	—2·2	94	1, 16	74·3	+2·2	71	30, 31	3·13	—1·62	0·80	18	5	+0·5	2·1	+0·9	1	0	0	1	0
Rangpur ...	...	...	...	...	...	...	...	...	5·02	—0·80	2·95	5	4	—0·5	...	...	0	0	0	0	0
EAST BENGAL (East)																					
Cox's Bazar ...	88·8	—1·7	93	26	75·7	+2·1	74	5 days	24·23	+17·07	8·20	2	7	—0·5	3·3	+1·6	8	0	1	0	0
Chittagong ...	87·3	+0·4	91	9 days	75·7	+2·3	72	31	21·19	+14·10	9·57	2	9	+2·0	2·5	—0·6	2	0	3	0	0
Noakhali (†) ...	88.1 (a)	+1·5	91	6 days	×	...	...	...	10·15	+20·02	3·18	3	9	+1·3	×	×	0	0	0	0	0
Comilla	85·1	—3·1	90	1, 15, 30	76·0	+2·6	69	15	16·00	+9·28	2·95	3	13	+6·4	2·6	+1·0	0	0	3	0	0
Narayanganj ...	89·7	+1·5	94	20, 25, 26	77·1	+1·8	71	16	12·03	+6·76	3·22	16	8	+2·0	×	...	0	0	0	0	0
Brahman Baria ...	88·0	—1·2	94	1	75·8	+1·6	71	30, 31,	17·69	+11·35	2·65	4	12	+5·1	2·4	...	3	0	0	0	0
Srimangal ...	87·2	—1·8	92	15	71·7	+1·5	68	23, 25, 31	16·70	+9·64	2·78	5	18	+9·9	0·7	—1·0	10	0	0	0	0
Mymensingh ...	86·5	—0·6	91	1	76·1	+2·2	75	9 days	14·11	+7·79	2·54	3	13	+6.9	2·5	+1·6	1	0	0	0	0
EAST BENGAL (Deltaic)																					
Faridpur ...	85·1	—2·2	91	20	75·6	+1·5	72	16, 31	6·64	+1·79	1·89	4	10	+4·4	2·3	+0·3	6	0	0	0	0
Barisal	88·7	+1·1	92	5 days	77·2	+2·3	73	16	12·13	+5·99	3·47	16	10	+3·1	2·3	+1·0	1	0	0	0	0
Khulna	90·3	+2·2	97	21	77·1	+2·1	72	16	5·13	+0·87	1·70	16	8	+1·8	2·9	+1·2	0	0	2	0	0
Jessore	92·0	+3·0	99	7	77·1	+4·6	...	...	8·86	+4·27	2·31	16	10	+4·2	2·5	+1·3	1	0	6	0	0
Satkhira	90·2	+0·5	95	21	77·0	+2·9	72	16	5·78	+1·28	1·00	17	8	+2·3	1·8	+0·8	0	0	0	0	0
KASHMIR																					
Srinagar * ...																					
Gulmarg * ...																					
Dras *																					
Leh *																					
Skardu * ...																					
Gilgit *																					
Misgar	62·1	...	70	8, 9, 10	35·1	...	26	19	0·09	...	0·07	17	0	...	2.9	...	0	0	0	0	0
Jammu *... ...																					
Kargil *																					
Gurez *																					
NORTH PUNJAB																					
Lahore	98·9	+4·9	105	7	68·5	+8·7	58	30, 31	0·00	—0·24	0·00	...	0	—0·5	1·7	+0·7	0	0	0	0	0
Sialkot	96·8	+5·4	101	6, 7	74·2	+12·1	59	30	0·00	—0·34	0·00	...	0	—0·8	2·0	+0·9	2	0	0	0	2
Jhelum	96·4	...	102	6	66·7	...	56	31	0·96	...	0·53	9	2	...	1·2	...	2	0	0	0	1
Rawalpindi ...	94·6	+6·0	101	6	64·3	+7·3	52	29, 30	0·55	—0·05	0·50	9	1	—0·4	1·5	+0·3	2	0	0	0	0
Khushab ...	98·9	+5·3	104	5, 6	70·3	+6.9	60	31	0·00	—0·15	0·00	...	0	—0·4	3·4	+0.5	0	0	0	0	0
Lyallpur	97·7	+4·5	103	6, 7, 8	70·2	+7·8	59	30	0·00	—0·12	0·00	...	0	—0·4	1·8	+0·4	0	0	0	2	2
SOUTH PUNJAB																					
Montgomery ...	99·8	+4·8	105	5	70·3	+6·8	63	23, 24	0·00	—0·08	0·00	...	0	—0·3	1·2	—1·1	0	0	0	0	0
Multan	101·0	+6·6	108	6	72·4	+8·7	63	30	0·00	—0·08	0·00	...	0	—0·2	1·7	+0·6	0	0	0	0	0
Fort Abbas ...	102·8	...	108	16	×	—	✗	...	0.00	...	0·00	...	0	..	×	...	0	0	0	0	0
Bahawalpur ...	101·2	+5·6	107	14	70·6	+8·1	62	30	0·00	—0·06	0·00	...	0	—0·2	1·7	—0·3	0	0	0	0	0
Khanpur ...	102·0	+5·1	108	5	70·3	+6·4	62	30	0·00	—0·02	0·00	...	0	—0·1	3·6	0·0	1	0	0	0	0
N. W. F. P. (Upper)																					
Chakdara ...	91·8	...	99	6, 7	60·1	...	51	29	0·47	...	0·33	29	2	...	3·6	...	0	0	0	0	0
Peshawar ...	92·9	+5·1	101	5	66·2	+5·7	57	29, 31	0·05	—0·18	0·05	29	0	—0·6	2·1	+1·0	0	0	0	0	0
Landi Kotal ...	86·0	...	93	6	60·1	...	50	31	1·28	...	1·28	29	1	...	2·8	...	5	1	0	0	0
N. W. F. P. (Lower)																					
Bannu	95·6	+5·0	103	5, 8	68·7	+6·8	57	30	0·00	—0·04	0·00	...	0	—0·1	2·1	...	0	0	0	0	0
Miranshah ...	88·8	+5·2	98	16	65·8	+7·5	55	29	0·02	—0·01	0·02	1	0	0·0	×	...	0	0	0	0	0
D. I. Khan ...	97·6	+4·3	104	4, 6	×	...	...	...	0·00	—0·11	0·00	...	0	—0·3	1·4	+0·6	0	0	0	0	0

* Data not available. (a) Mean for 30 days. (†) Extrapolated from Khulna × Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF OCTOBER 1951.

Sub-division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)				Weather Number of days		
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Highest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less: Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
BALUCHISTAN (North)																					
Fort Sandeman ...	89·9	+7·3	95	4,7	60·9	+8·0	52	29, 30, 31	0·00	—010	0·00	[illegible]	0	—0·2	2·4	+1·1	0	0	0	0	0
Hindubagh ...	83·9	...	90	7	52·8	...	41	29	0·12	...	0·12	28	1	...	×	...	0	0	0	0	1
Loralai	87·4	...	94	4, 6, 7	55·0	...	47	4 days	0·00	—0·11	0·00	...	0	—0·3	3·5	...	0	0	0	0	0
Harnai	...	...	...	...	...	...	...	...	0·00	—0·23	0·00	...	0	—0·4	...	...	0	0	0	0	0
Sibi	103·8	+6·2	113	6	64·5	—1·0	57	22, 24, 30	0·00	0·00	0·00	...	0	0·0	2·0	—0·3	0	0	0	0	0
Quetta	81·8	...	91	8	47·4	...	36	31	0·03	...	0·03	28	0	...	3·5	+2·0	0	0	0	0	2
Quetta (Samangli)	83·3	...	91	8	44·6	...	33	31	0·32	...	0·32	28	1·0	...	4·5	...	0	0	0	0	0
Chaman	87·1	+7·3	95	7	63·0	+9·5	52	28	0·00	—0.16	0·00	...	0	—0·2	4·2	+0·2	0	0	0	0	0
Nushki	93·3	...	101	6, 7	70·3	...	58	19	0·00	...	0·00	...	0	...	7·3	...	0	0	0	0	1
Kalat	79·1	+3·8	87	7	47·4	+6·4	38	31	0·00	—0.09	0·00	...	0	—0·2	5·5	+1·7	0	0	0	0	0
Dalbandin ...	94·9	+5·9	103	5, 6	59·5	+8·6	47	31	0·00	—0.02	0·00	...	0	—0·1	2·8	+0·2	0	0	0	0	0
Nokkundi ...	97·8	+5·6	107	5, 6	67·7	+7·6	55	18	0·00	0.00	0·00	...	0	0·0	6·1	+0·9	0	0	0	0	0
BALUCHISTAN (South) Las Bela (R) ...																					
Ormara	89·0	—0·2	103	12	74·4	3·6	62	31	0·00	0.00	0·00	...	0	0	9·7	+2·4	0	0	0	0	0
Pasni	91·6	+1·1	105	12	70·1	+2·8	63	30	0·00	0.00	0·00	...	0	0	7·3	+2·2	0	0	0	0	0
Turbat	102·8	...	114	4	73·5	...	67	29, 30	0·00	...	0·00	...	0	...	5·9	...	0	0	0	0	1
Panjgur	91·4	+4·2	100	5	58·7	+3·3	50	31	0·00	—0.01	0·00	...	0	—0·1	4·0	+0·4	0	0	0	0	0
SIND (Upper)																					
Reti	105·0	...	112	6	67·8	...	59	31	0·00	...	0·00	...	0	...	5·0	...	0	0	0	0	0
Jacobabad ...	102·3	+4·8	114	6	72·0	+6·4	63	31	0·00	0.00	0·00	...	0	—0·1	4·4	+1·6	0	0	0	1	1
Sukkur	102·7	+6·7	111	5	72·6	+3·7	69	31	0·00	—0.01	0·00	...	0	0·0	×	...	0	0	0	0	0
Padidan	103·1	...	113	6	69·3	...	58	31	0·00	...	0·00	...	0	...	1·8	...	0	0	0	0	0
SIND (Lower)																					
Umarkot... ...	102·8	...	112	4, 6	71·8	...	65	30, 31	0·00	...	0·00	...	0	...	5·6	...	0	0	0	2	0
Chfor	100·7	...	110	15	70·2	...	60	31	0·00	...	0·00	...	0	...	6·8	...	0	0	0	1	0
Hyderabad ...	103·2	+5·4	111	3, 4	73·4	+3·2	67	31	0·00	—0.03	0·00	...	0	—0·1	4.6	+0·2	0	0	1	1	0
Karachi (Airport) (t)	95·6	...	110	1	73·0	...	65	26, 27	0·00	...	0·00	...	0	...	4·8	...	0	0	6	2	1
Karachi (Manora)...	85·9	—1·4	99	1	74·9	+1·2	71	29	0·00	—0.02	0·00	...	0	—0·1	4·7	—1·0	0	0	1	6	0
Badin	(f) 100·7	+4·7	110	4	(f) 72·7	+2·8	61	23	0·00	—0.03	0·00	...	0	—0·1	×	...	0	0	0	0	0
HILL STATION Excluding Kashmir and Baluchistan																					
Murree	71·7	+4·1	77	6	55·0	+5·7	43	29	1.56	0·00	1.00	29	2	—0·7	5·1	+1·5	2	2	0	0	0
Cherat	83·8	+7·2	91	6	64·3	+5·9	53	30	0·82	0.26	0·76	9	1	—0·3	5·8	+0·7	1	0	0	0	0
Drosh	82·6	+5·9	92	6	58·6	+5·4	45	29, 30	1·62	+0.35	1·01	29	3	—0·1	4·2	+2·2	6	0	0	0	0
Parachinar ...	80·0	+5·8	87	6, 16	53·6	+4·9	45	29	1·61	+0.66	0·60	1	4	+1·5	2·9	+0·7	7	2	0	0	0
Wana	86·7	+6·7	94	6	54·3	+7·3	42	28, 30	0·00	—0.12	0·00	...	0	—0·3	0·2	...	0	0	0	0	0
AFGHANISTAN																					
Jalalabad ...	93·1	...	100	4, 5, 15	63·1	...	54	31	0·00	...	0·00	...	0	...	2·1	...	0	0	0	0	0
Kabul	79·1	+5·8	86	1, 7	48·5	+7·1	38	29	0·19	—0.21	0·09	29	0	—0·8	3·0	+1·2	2	0	0	0	0
Kandahar ...	91·7	...	98	6, 7, 8	47·7	...	40	31	0·00	...	0·00	...	0	...	0·7	...	0	0	0	0	0
IRAN																					
Jask	92·0	+1·2	104	2	77·7	+2·2	71	29, 30	0·00	—0.12	0·00	...	0	—0·2	8·7	+2·5	0	0	0	0	3
ARABIA																					
Muscat	91·0	0·0	99	24	×	...	...	...	0·03	—0.11	0·03	27	0	—0·2	3·6	+0·8	0	0	0	0	0
Kuwait*	90·2	...	101	1	74·3	...	63	28	0·00	...	0·00		0	...	5·4	...	0	0	0	0	0

(R) Register not received. × Data not available. (f). Mean of 25 days.

* Observation recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T.

(t) Same obsy was previously designated as "Karachi Drigh Road".

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Reg. No. S.-1452

PAKISTAN WEATHER REVIEW 1951

MONTHLY WEATHER REPORT

NOVEMBER

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Chief Features :—(1) Two active western disturbances affected West Pakistan during the second and the fourth weeks.

(2) Generally dry weather in East Pakistan during the last three weeks of the month.

West Pakistan :—Two active western disturbances affected West Pakistan during the month.

The first disturbance which moved across northeast Baluchistan and the Punjab during the second week gave rain/thundershowers over the hills of the North-West Frontier Province and the extreme north Punjab on the 12th.

The second disturbance, moving across the northern region affected West Pakistan in the fourth week and was more active. It caused marked spell of wet weather over the North-West Frontier Province, the Punjab and north Baluchistan and a few falls in Sind and south Baluchistan between the 24th and 26th, and filled up over the extreme north of West Pakistan by the 26th evening.

A deep depression which had originated in the central Arabian Sea, off Kathiawar coast on the 17th and filled up by the next day. In its association widespread rain/drizzle and moderate gales from a few stations in lower Sind were reported on the 17th and 18th.

Some of the noteworthy amounts of rainfall recorded during the month were :—Drosh 1/2″ on the 12th ; Badin 3/4″ on the 18th ; Kalat 1/2″ on the 24th ; Murree and Lahore 1-1/2″ each, Fort Abbas, Montgomery and Rawalpindi 1″ each on the 25th ; Cherat 2″, Jhelum 1-1-/2″, Sialkot, Rawalpindi and Murree 1″ each on the 26th.

The mean actual rainfall during the month was in large excess over the Punjab and the North-West Frontier Province and normal over north Baluchistan while no rain fell over Sind and south Baluchistan. The mean maximum temperature was in excess over the upper North-West Frontier Province and north Baluchistan and normal elsewhere. The mean minimum temperature was in excess over the Punjab and the North-West Frontier Province and normal over Sind and Baluchistan. The mean relative humidity was in excess over lower Sind and normal elsewhere. Skies were more clouded than usual over the Punjab and Sind, less clouded over the lower North-West Frontier Province and south Baluchistan and were clouded as usual over the upper North-West Frontier Province and north Baluchistan.

East Pakistan :—In association with a well-marked trough of low in the central Bay of Bengal, rain/thundershowers occurred in East Pakistan on the first four days of the first week.

Weather remained dry for the two succeeding weeks.

In the fourth week, a depression appeared in the west central Bay of Bengal on the 25th, moved northeastwards and filled up in the north Bay on the 27th. It was responsible for fairly widespread rain which occurred on the 26th and 27th.

Some of the noteworthy amounts of rainfall recorded during the month were :—Mymensingh 2″ on the 4th ; Sirajganj 2″ on the 26th ; Srimangal and Brahmanbaria 1″ each on the 27th

The mean actual rainfall during the month was in large excess over the Northern sub-division, normal over the Deltaic sub-division and in moderate defect over the Eastern sub-division. The mean maximum and minimum temperatures and relative humidity were normal over the region with the exception of the minimum temperature over the Eastern sub-division being in excess. Skies were more clouded than usual over the Northern sub-division, less clouded over the Eastern sub-division and were clouded as usual over the Deltaic sub-division.

Table I contains the Divisional and Sub-Divisional means of rainfall, temperature, humidity and cloud for the 5 chief Divisions and 12 Sub-Divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	Inches	Inches	Inches		°	°	mb	%	
East Pakistan	1·19	1·11	+0 08	+7	+0·3	+2·0	+1·6	0	—0·2
Mean of East Pakistan	1·19	1·11	+0·08	+7	+0·3	+2·0	+1·6	0	—0·2
Punjab	0·85	0·11	+0·74	+673	+1·6	+4·8	+1·2	+4	+0·8
North-West Frontier Province	0·52	0·16	+0·36	+225	+1·4	+3·1	+1·2	+5	+0·1
Baluchistan	0·09	0·12	—0·03	—25	+1·7	+0·6	+0·3	—3	0·0
Sind	0·00	0·07	—0·07	—100	+1·0	+1·8	+0·8	+4	+0·9
Mean of West Pakistan excluding Baluchistan	0·51	0·10	+0·41	+410	+1·0	+3·5	+1·1	+4	+0·7
SUB-DIVISION									
East Pakistan (North)	1·39	0·59	+0·80	+136	+1·1	+1·7	+2·8	0	+0·5
East Pakistan (East)	1·11	1·57	—0·46	—29	+0·3	+2·1	+0·9	—1	—0·5
East Pakistan (Deltaic)	1·07	1·09	—0·02	—2	—0·1	+1·9	+2·0	+3	0·0
Kashmir*									
North Punjab	1·27	0·15	+1·12	+747	+1·8	+5·6	+1·8	+4	+0·9
South Punjab	0·32	0·06	+0·26	+433	+1·4	+3·9	+0·4	+3	+0·7
North-West Frontier Province (Upper)	0·78	0 31	+0·47	+158	+2·3	+3·2	+1·8	+5	+0 4
North-West Frontier Province (Lower)	0·45	0·11	+0·34	+309	+1·1	+3·0	+1·0	+5	0·0
Baluchistan (North)	0·12	0·13	—0·01	—8	+2·6	+0·9	+0·2	—1	+0·1
Baluchistan (South)	0·00	0·06	—0·06	—100	0·0	—0·1	+0·5	—5	—0·2
Sind (Upper)	0·00	0·03	—0·03	—100	+1·7	+1·9	—0·7	+1	+1·1
Sind (Lower)	0·00	0·11	—0·11	—100	+0·6	+1·7	+1·9	+7	+0·7

* Data incomplete.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1951

Sub-Division and Station	Hours of Observation	Height of barcistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & m.s.l. or nearest GPKM level	Mean temperature of the air & humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind directions Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
EAST PAKISTAN (NORTH)	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Octas										
Pabna	0300	...	...	...	...	76·9	70·5	70·0	25·3	+3·9	72	—3											
Sirajganj	0000	49	1010·8	...	1012·5	66·7	66·3	66·0	21·2	...	98	...	1·8	...	0	0	0	0	0	0	0	0	30
	0300	...	1013·1	...	1014·8	74·6	70·4	67·9	24·1	...	80	...	1·9	...	0	0	1	0	1	0	1	4	23
	1200	...	1009·5	...	1011·2	75·9	71·0	68·1	23·7	...	77	...	2·0	...	0	0	0	0	0	0	0	0	30
Bogra	0000*	65	1010·6	...	1012·9	66·3	64·8	63·6	20·0	...	92	...	1·3	...	1	0	0	0	0	0	0	0	29
	0300	63	1012·7	—0·4	1014·9	74·0	69·9	67·6	23·2	+2·8	81	+4	2·5	+1·1	4	7	9	1	0	0	1	2	6
	1200	...	1009·2	...	1011·4	76·7	70·7	67·2	23·2	...	73	...	1·8	...	0	0	1	0	0	0	1	0	28
Dinajpur	0000	123	1009·9	...	1014·2	63·8	62·5	61·6	18·6	...	91	...	0·4	...	0	0	0	0	0	0	0	0	30
	0300	...	1011·7	+0·3	1016·0	73·3	68·3	65·3	21·1	+1·7	76	—1	1·3	0	2	5	1	0	0	0	0	0	22
	1200	...	1008·5	...	1012·8	75·7	69·5	66·3	22·3	...	73	...	0·5	...	0	0	0	0	0	0	0	0	30
EAST PAKISTAN (EAST)																							
Cox's Bazar	0000	38	1011·4	...	1012·7	68·0	66·8	66·0	22·1	...	95	...	1·5	...	0	0	0	0	0	0	0	0	30
	0300	...	1012·8	+0·1	1014·1	78·7	72·1	68·8	24·3	—0·6	72	—5	0·9	—1·8	1	0	0	0	0	0	0	0	29
	1200	...	1009·9	...	1011·2	78·4	71·1	67·0	22·1	...	67	...	1·5	...	0	0	0	0	0	0	0	0	30
Chittagong	0300	87	1011·2	—0·5	1014·2	78·1	71·5	68·2	23·4	0	71	—10	1·9	—0·7	5	9	5	1	0	0	0	0	10
	1200	...	1008·1	...	1011·1	77·3	69·9	67·2	21·2	...	67	...	1·7	...	3	2	1	0	1	2	5	13	3
Noakhali (Maijdee) (R) ...	0000	22																					
	0300	...																					
	1200	...																					
Comilla	0000	29	1011·6	...	1012·7	67·0	66·1	65·3	21·4	...	95	...	2·7	...	5	0	0	0	0	0	0	0	25
	0300	...	1013·1	—0·8	1014·1	75·5	71·0	68·3	23·5	+0·3	79	+4	1·6	—0·1	4	6	4	4	4	0	1	2	5
	1200	...	1010·6	...	1011·3	76·4	72·4	70·3	25·0	...	81	...	2·2	...	2	0	2	2	0	1	0	0	23
Narayanganj	0000	26	1011·3	...	1012·2	69·1	67·5	66·6	22·3	...	92	...	2·2	...	0	0	1	0	0	0	0	0	29
	0300	...	1012·8	—1·2	1013·7	78·9	71·3	67·3	23·0	+1·1	68	—6	2·1	0	4	2	8	0	1	0	2	4	9
	1200	...	1009·2	...	1010·0	77·7	70·6	66·5	22·7	...	69	...	1·9	...	0	1	0	0	1	0	0	1	27
Brahmanbaria	0000	32	1012·0	...	1013·1	68·9	67·9	67·0	22·9	...	94	...	1·8	...	1	1	0	0	0	0	0	0	28
	0300	...	1013·6	...	1014·7	78·5	72·2	68·8	24·3	+1·2	73	+3	1·2	...	4	6	3	0	0	0	0	0	17
	1200	...	1010·7	...	1011·7	78·6	72·2	69·3	24·3	...	73	...	1·0	...	0	0	1	0	0	0	0	0	29
Srimangal	0000	69	1010·7	...	1013·1	61·9	61·4	60·7	18·4	...	97	...	2·9	...	0	0	0	0	0	0	0	0	30
	0300	...	1012·3	—0·5	1014·7	73·5	70·2	68·4	23·1	+1·7	84	+1	2·2	+0·2	0	2	2	0	0	0	0	0	26
	1200	...	1008·8	...	1011·3	73·0	71·1	70·0	25·0	...	91	...	1·6	...	0	0	0	1	1	0	0	0	28
Mymensingh	0000	62	1011·2	...	1013·3	68·1	66·7	66·2	21·5	...	92	...	1·3	...	0	0	0	0	0	0	0	0	30
	0300	...	1013·0	—0·2	1015·2	75·5	71·4	69·5	24·1	+2·3	81	+2	1·3	—0·6	0	0	4	0	0	0	0	0	26
	1200	...	1009·6	...	1011·8	78·0	72·0	69·2	24·1	...	73	...	1·3	...	0	0	0	0	0	0	0	0	30
EAST PAKISTAN (DELTAIC)																							
Faridpur	0000	46	1009·5	...	1011·1	66·0	65·3	64·6	21·2	...	97	...	2·6	...	1	0	0	0	0	0	0	0	29
	0300	...	1013·1	—0·2	1014·7	75·6	70·7	68·0	23·7	+1·8	77	0	1·6	+0·2	3	5	1	1	0	0	0	2	18
	1200	...	1009·8	...	1011·4	77·2	71·5	68·2	23·2	...	73	...	2·4	...	1	0	1	0	1	0	0	1	26
Barisal	0000	11	1012·0	...	1012·4	68·5	67·3	66·5	22·9	...	93	...	2·6	...	2	2	1	0	0	0	0	6	19
	0300	...	1014·0	—0·3	1014·4	75·8	71·1	68·6	24·3	+1·0	75	0	2·2	+0·4	2	9	1	0	1	0	0	5	12
	1200	...	1010·6	...	1011·0	77·9	71·5	68·0	23·4	...	72	...	2·6	...	4	0	1	1	0	2	2	2	18
Khulna	0000	16	1012·5	...	1012·9	68·3	66·9	66·5	21·5	...	92	...	2·1	...	0	1	1	0	0	0	0	0	28
	0300	...	1014·3	—0·4	1014·9	77·1	70·7	67·5	22·5	+1·9	71	+4	1·6	—0·6	6	2	7	0	0	1	1	3	10
	1200	...	1011·1	...	1011·6	77·1	70·7	67·8	22·5	...	71	...	2·0	...	0	0	0	0	1	0	0	0	29
Jessore	0000	26	1012·6	...	1013·5	64·8	63·4	62·9	19·3	...	92	...	1·1	...	1	1	0	0	0	0	0	1	27
	0300	...	1013·7	—0·7	1014·6	74·4	70·2	67·3	23·2	+2·3	81	+7	1·1	—0·5	5	5	1	1	0	1	1	7	9
	1200	...	1010·9	...	1011·8	75·5	71·1	68·8	23·5	...	79	...	1·4	...	0	0	0	0	0	1	0	0	29
Satkhira	0000	16	1012·3	...	1012·9	66·9	65·7	64·7	21·4	...	95	...	2·6	...	1	1	0	0	0	0	0	4	24
	0300	..	1013·9	—0·6	1014·4	76·8	71·4	68·3	23·9	+3·1	75	+2	2·6	+0·4	4	6	0	0	0	2	0	15	3
	1200	...	1010·6	...	1011·2	78·1	73·9	71·5	26·9	...	82	...	3·6	...	0	0	0	1	0	0	0	2	27

* The observations at 00 hrs. have been recorded from a distant site by F.B.O. Staff. (R) Register not received.

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure			Mean temperature of the air & humidity							Total Cloud amount		Wind direction, Number of observations from :—								
			Stn. level reduced to standard temp. and gravity	Departure from normal	Reduced to standard temp. & m.s.l. or nearest GPKM level	Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
KASHMIR	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	F°	Mb.	Mb.	%	%	Octas										
Srinagar†	0000	5,205																					
	0300																						
	1200																						
Gulmarg†	0000	8,709																					
	0300 1200																						
Dras†	0000	10,059																					
	0300																						
	1200																						
Leh†	0000	11,529																					
	0300																						
	1200																						
Skardu†	0000	7,505																					
	0300																						
	1200																						
Gilgit†	0000	4,890																					
	0300																						
	1200																						
Misgar	0000	10,190	701·6	...	705·3	27·7	23·8	16·2	3·1	...	61	...	1·6	...	0	0	0	0	0	0	1	0	29
	0300	...	702·3	...	706·2	26·5	23·1	16·5	3·1	...	65	...	2·1	...	0	0	0	0	0	0	3	0	27
	1200	...	700·0	...	703·7	39·6	30·0	12·8	2·7	...	31	...	2·5	...	0	0	13	0	0	0	7	0	10
NORTH PUNJAB																							
Lahore	0000	702	938·4	...	1013·8	54·8	52·7	50·7	12·6	...	87	...	1·2	...	0	0	0	1	1	0	0	0	28
	0300	...	989·9	—1·4	1015·1	60·0	55·3	51·0	12·8	+2·0	73	+10	2·5	+1·4	1	0	1	4	1	0	2	1	20
	1200	...	987·5	...	1011·8	76·1	65·3	57·7	16·4	...	53	...	1·8	...	0	0	2	2	0	0	1	1	24
Sialkot	0000	830	983·6	...	1013·2	57·3	53·7	48·3	12·5	...	78	...	1·5	...	1	8	2	0	0	0	0	1	18
	0300	...	986·0	—1·1	1015·4	63·6	56·1	49·5	12·0	+1·0	60	—12	1·9	+1·0	0	6	1	3	0	0	0	2	18
	1200	...	982·8	...	1011·4	74·9	63·0	54·1	14·3	...	48	...	2·4	...	0	0	3	1	0	0	1	0	25
Jhellum	0000	765	986·6	...	1014·5	53·0	50·5	47·8	11·4	...	83	...	1·3	...	0	0	0	1	0	0	1	2	26
	0300	...	988·0	...	1016·0	57·2	52·9	48·1	11·8	...	72	...	2·6	...	1	0	0	0	0	0	0	2	27
	1200	...	985·5	...	1012·1	74·3	61·0	49·7	12·4	...	41	...	2·2	...	0	0	2	1	1	1	3	1	21
Rawalpindi	0000	1,674	955·1	...	1015·0	50·9	47·4	43·5	9·4	...	77	...	0·6	...	1	0	0	0	0	0	1	0	28
	0300	...	957·0	—1·3	1016·4	56·4	49·5	41·1	9·3	+0·9	59	—3	2·1	+0·9	1	1	0	0	0	1	1	0	26
	1200	...	954·5	...	1012·1	70·6	58·3	48·0	11·7	...	47	...	1·6	...	0	0	0	1	1	1	3	0	24
Khushab	0000	616	991·4	...	1013·8	55·3	51·6	47·8	11·4	...	77	...	0·6	...	0	5	3	1	3	2	2	0	14
	0300	...	992·8	—2·3	1015·0	59·3	54·0	49·0	11·9	+3·6	68	+17	1·6	+0·5	2	5	10	5	0	2	3	1	2
	1200	...	990·3	...	1011·5	80·1	66·2	57·1	15·7	...	44	...	1·5	...	1	3	5	4	5	2	5	3	2
Lyallpur	0000	605	991·1	...	1012·9	56·6	52·0	47·1	11·3	...	72	...	1·4	...	3	2	1	3	0	2	0	0	19
	0300	...	992·6	—2·1	1014·4	58·0	53·0	48·5	11·7	+1·6	71	+9	2·2	+0·9	0	3	3	4	2	1	1	2	14
	1200	...	990·3	...	1011·2	78·4	62·6	49·9	12·3	...	37	...	1·7	...	1	1	1	4	4	2	1	2	14
SOUTH PUNJAB																							
Montgomery	0000	558	992·9	...	1013·1	55·0	52·7	49·8	12·6	...	82	...	1·2	...	0	0	0	0	0	13	5	8	4
	0300	...	994·7	—1·9	1014·6	60·7	55·3	50·1	12·3	+1·2	69	+5	2·0	+1·2	0	0	0	0	0	6	0	6	18
	1200	...	992·6	...	1011·8	80·6	67·7	59·1	17·2	...	51	...	1·3	...	0	0	0	1	0	0	1	0	28
Multan	0300	413	1000·1	—1·5	1014·9	62·3	53·9	45·7	10·5	—1·6	56	—6	1·3	+0·5	6	3	0	0	6	1	3	1	10
	1200	...	997·3	...	1011·5	82·1	63·9	49·5	12.1	...	34	...	0·8	...	5	0	0	0	11	1	0	3	10
Fort Abbas	0000	475	995·9	...	1012·8	62·5	50·6	52·1	7·3	...	36	...	0·4	...	0	1	0	3	0	21	0	0	5
	0300	...	996·7	...	1013·5	66·6	58·6	51·8	13·3	...	60	...	0·6	...	1	0	1	4	0	15	0	0	9
	1200	...	993·8	...	1010·2	82·0	*	*	...	...	...	...	0·4	...	0	1	0	1	0	13	0	1	14
Bahawalpur	0300	384	1000·7	—1·6	1014·5	57·5	53·0	48·5	11·7	+0·9	73	+12	1·0	+0·1	4	2	0	1	7	1	1	1	13
	1200	...	998·3	...	1011·5	80·3	67·3	58·7	16·9	...	48	...	0·7	...	1	0	0	0	0	1	0	0	28
Khanpur	0300	297	1004·0	—1·3	1014·7	60·4	53·4	46·6	10·8	+1·1	60	+3	1·5	+0·9	5	4	2	2	7	5	1	1	3
	1200	...	1001·4	...	1011·7	82.8	65·3	52·5	13·4	...	35	...	1·7	...	6	4	1	1	1	9	4	2	2

† Data not available. * Data Rejected.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from :— N	NE	E	SE	S	SW	W	NW	Clam
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
NORTH-WEST FRONTIER PROVINCE (Upper)	GMT	Ft.	Mb.	Mb.	Mb.	F°	F°	F°	Mb.	Mb.	%	%	Octas										
Chakdara	0000	2,197	937·4	...	1016·1	50·4	45·7	40·1	8·6	...	70	...	0·7	...	6	0	3	4	1	0	2	5	9
	0300	...	938·7	...	1017·5	51·1	46·3	41·9	8·8	...	67	...	1·2	...	14	2	0	0	1	1	0	5	7
	1200	...	935·5	...	1011·3	69·0	57·4	47·5	11·4	...	48	...	1·2	...	2	0	0	0	8	7	2	1	10
Peshawar	0000	1,175	973·0	...	1015·1	54·9	48·1	38·1	8·4	...	56	...	1·5	...	0	0	1	1	18	6	0	0	4
	0300	...	974·5	—1·7	1016·4	56·1	49.6	41·1	9·0	+1·8	58	+5	2·6	+0·4	0	0	0	2	6	4	1	0	17
	1200	...	971·6	...	1012·3	71·8	59·4	48·4	11·7	...	44	...	2·1	...	1	1	0	3	0	0	0	3	22
Landikotal	0000	3,503	895·0	...	900·1	47·8	43·7	38·8	8·0	...	72	...	1·8	...	0	1	0	0	0	0	0	1	28
	0300	...	896·0	...	901·1	53·1	46·4	38·8	8·1	...	60	...	2·2	...	0	2	0	0	0	0	0	2	26
	1200	...	894·0	...	898·9	65·4	54·4	44·7	10·0	...	47	...	1·9	...	1	6	0	4	0	4	0	2	13
NORTH-WEST FRONTIER PROVINCE (Lower)																							
Bannu	0000	1,264	969·3	...	1014·4	56·5	49·3	40·9	8·9	...	58	...	0·6	...	2	1	1	2	3	1	0	1	19
	0300	...	970·7	...	1015·6	57·8	50·7	43·1	9·4	+1·3	58	+6	0·9	—0·1	2	2	1	0	1	3	7	7	7
	1200	...	968.7	...	1011·8	77·6	59·9	43·4	9·7	...	31	...	1·6	...	2	1	5	4	6	1	1	0	10
Miranshah	0000	3,026	914·7	...	904·0	50·7	42·2	25·5	5·8	...	46	...	1·0	...	0	12	7	5	1	1	0	0	4
	0300	...	911·8	...	901·0	52·9	43·7	30·5	6·0	+1·7	45	+6	2·0	+0·8	0	4	0	0	0	0	0	1	25
	1200	...	909·4	...	899·1	71·2	53·5	35·4	6·9	...	34	...	2·5	...	0	8	10	11	0	0	0	0	1
D. I. Khan	0000	570	992·5	...	1013·2	54·1	49·8	45·0	10·3	...	72	...	0·0	...	0	10	0	0	1	0	1	0	18
	0300	...	994·2	—2·1	1015·0	53·8	49·3	44·2	10·0	+0·1	70	+4	0·4	—0·6	0	3	0	0	0	1	2	0	24
	1200	...	991·7	...	1011·5	79·1	64·3	53·1	13·9	...	40	...	0·7	...	0	5	2	3	0	0	0	1	19
Baluchistan (North)																							
Fort Sandeman	0300	4,614	863·0	—0·4	903·6	49·9	39·5	22·3	4·1	0·0	33	—22	1·6	+0·6	0	0	1	0	0	0	0	0	29
	1200	...	860·4	...	899·3	70·7	51·0	26·4	5·9	...	19	...	1·2	...	2	0	1	0	0	2	1	0	24
Hindubagh	0000	5,909	822·2	...	798·5	43·0	33·5	16·1	2·6	...	27	...	1·0	...	0	0	1	0	0	2	6	4	17
	0300	...	823·6	...	799·9	47·3	36·4	18·4	3·3	...	31	...	1.6	...	0	0	2	1	0	9	5	3	10
	1200	...	820·9	...	797·2	64·8	45·4	18·1	3·5	...	16	...	2·0	...	0	0	8	1	0	8	7	3	3
Loralai (R)	0000	4,699																					
	0300																						
	1200																						
Sibi	0000	441	997·1	...	1013·0	56·7	47·7	36·1	7·3	...	46	...	0·8	...	0	0	0	2	0	0	0	0	28
	0300	...	998·8	—1·0	1014·8	57·3	47·8	35·9	7·0	+0·6	43	+7	1·5	+0·3	0	2	0	1	0	0	0	1	26
	1200	...	995·7	...	1010·8	84·9	60·0	32·8	6·5	...	16	...	1·2	...	0	1	0	7	2	13	0	1	6
Quetta	...	5,490																					
	0300		835·1	—2·4	798·2	42·5	36·3	31·6	5·1	+0·7	56	+1	1·4	+0·2	0	1	0	2	3	2	1	0	21
	1200	...	832·9	...	797·4	64·5	49·8	34·7	7·0	...	34	...	1·8	...	9	2	0	0	1	1	1	14	2
Quetta (Samungli)	0000	5,253	843·9	...	798·4	31·2	28·1	22·3	4·1	...	70	...	0·5	...	0	0	2	14	2	1	0	1	10
	0300	...	845·1	...	800·0	36·4	31·5	24·1	4·2	...	58	...	1·7	...	0	0	4	6	0	1	0	0	19
	1200	...	842·6	...	800·0	65·3	51·0	36·3	7·5	...	35	...	1·7	...	3	0	0	0	1	1	7	18	0
Chaman	0000	4,311	872·1	...	902·4	48·7	41·6	30·0	6·3	...	53	...	0·1	...	1	1	23	4	1	0	0	0	0
	0300	...	872·7	—0·7	903·8	49·7	41·6	31·0	5·9	+1·0	48	+6	1·0	0·0	0	1	17	9	0	1	0	1	1
	1200	...	870·9	...	900·3	67·8	54·8	42·2	9·5	...	41	...	0·0	...	0	0	0	1	0	7	7	15	0
Nushki	0000	3,412	905·2	...	906·8	54·9	43·3	27·1	5·0	...	33	...	0·5 (b)	...	0	12	9	1	0	0	0	0	4
	0300	...	906·9	...	908·6	56·6	44·5	28·3	5·2	...	37	...	1·2	...	1	9	11	5	0	0	0	1	3
	1200	...	904·4	...	906·0	73·3	54·3	34·3	6·7	...	24	...	1·5	...	0	0	0	1	0	2	12	12	3
Kalat	0000	6,616	802·2	...	799·5	35·3	31·6	27·6	4·8	...	69	...	0·5	...	0	0	0	30	0	0	0	0	0
	0300	...	803·2	—0·1	800·4	36·5	32·6	28·2	4·9	+1·4	66	+18	0·9	—0·1	0	0	0	3	24	0	0	1	2
	1200	...	801·5	...	798·9	62·9	51·9	42·6	9·3	...	47	...	1·3	...	8	0	0	0	2	4	0	15	1
Dalbandin	0000	2,785	919·1	...	900·8	46·0	38·0	25·5	4·6	...	43	...	0·7	...	1	9	0	0	0	0	0	0	20
	0300	...	921·4	—1·0	902·3	46·3	37·9	24·0	4·3	—0·6	40	—7	1·1	+0·1	3	5	2	0	0	0	0	0	20
	1200	...	918·8	...	900·8	75·1	54·7	33·1	6·7	...	21	...	1·2	...	0	10	9	1	0	2	0	0	8
Nokkundi	0000	2,229	937·1	...	1015·9	53·5	41·3	21·9	4·0	...	30	...	0·7	...	12	3	2	0	0	0	0	8	5
	0300	...	939·3	...	1017·9	53·3	41·4	22·7	4·0	—1·7	29	—13	1·5	—0·1	9	5	1	1	0	0	0	7	7
	1200	...	936·5	...	1010·9	78·4	58·5	38·8	8·7	...	25	...	1·5	...	2	0	1	6	6	1	0	2	12

(b) Mean for 29 days. (R) Register not received.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1951

Sub-Division and Station	Hours of Observation	Height of barcistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Octas										
BALUCHISTAN (South)																							
Las Bela (R)	0000	292																					
	0300																						
	1200																						
Ormora	0000	15	1011·7	...	1012·2	68·6	64·7	61·9	18·9	...	62	...	0·3	...	0	0	2	1	2	0	8	0	17
	0300	...	1013·2	...	1013·7	68·9	64·3	60·5	18·7	+0·9	61	—12	0·5	—0·7	1	1	6	0	1	0	3	0	18
	1200	...	1010·5	...	1011·0	82·8	72·9	66·9	23·0	...	60	...	0·3	...	1	1	3	2	5	2	13	1	2
Pasni	0000	10	1012·9	...	1013·3	64·2	59·0	54·0	14·6	...	73	...	0·5	...	1	1	0	1	0	1	6	12	8
	0300	...	1013·9	—1·6	1014·2	67·3	61·2	56·0	15·9	+0·7	69	0	0·4	—0·6	2	0	2	0	0	1	7	14	4
	1200	...	1010·9	...	1011·3	82·7	68·5	61·3	17·9	...	46	...	0·5	...	0	1	0	10	2	16	0	1	0
Turbat	0000	510	(e) 996·5	...	(e) 1014·4	(e) 64·8	(e) 54·8	(e) 42·2	(e) 10·3	...	(e) 49	...	(e) 0·5	...	(e) 0	7	12	3	1	1	0	1	1
	0300	...	(e) 998·0	...	(e) 1015·7	(e) 69·9	(e) 55·7	(e) 40·2	(e) 9·1	...	(e) 36	...	(e) 1·2	...	(e) 0	7	13	2	0	0	0	0	4
	(e) 1200	...	(e) 994·8	...	(e) 1011·9	(e) 89·6	(e) 64·6	(e) 42·1	(e) 9·4	...	(e) 20	...	(e) 1·4	...	(e) 1	9	0	2	1	6	5	2	0
Panjgur	0000	3,177	906·8	...	901·0	51·5	42·3	26·0	5·5	...	46	...	1·0	...	12	14	0	0	0	1	1	2	0
	0300	...	907·6	—1·1	901·7	48·2	40·3	25·0	5·3	—0·1	45	—4	1·6	+0·7	7	20	0	0	0	2	1	0	0
	1200	...	904·8	...	899·2	74·7	56·5	31·3	8·2	...	29	...	1·3	...	7	4	0	0	0	4	4	11	0
SIND (Upper)																							
Reti	0000	280	1003·8	...	1014·0	57·4	50·5	43.2	9·4	...	58	...	0·7	...	5	6	3	1	3	0	9	0	3
	0300	...	1005·5	...	1015·6	58·7	50·7	41·4	9·0	...	54	...	1·1	...	4	6	3	0	6	0	7	0	4
	1200	...	1002·5	...	1012·0	86·3	64·4	45·6	10·8	...	24	...	0·8	...	7	3	0	0	1	1	12	3	3
Jacobabad	0000	183	1006·2	...	1012·9	59·6	51·7	43·2	9·5	...	55	...	1·2	...	3	3	6	4	2	0	1	6	5
	0300	...	1007·7	—1·9	1014·4	61·4	52·7	43·3	9·7	—1·5	53	—5	1·7	+1·0	0	2	7	5	1	0	4	5	6
	1200	...	1005·2	...	1011·6	84·3	62·6	42·4	9·6	...	24	...	1·4	...	4	0	1	4	4	5	5	4	3
Sukkur	0300	221	1006·3	—1·8	1014·2	62·4	55·7	49·7	12·2	+0·1	64	+6	1·9	+1·3	2	6	2	10	3	1	1	0	5
	1200	...	1003·5	...	1011·1	84·1	65·6	51·5	13·1	...	33	...	1·4	...	2	6	0	1	1	2	2	1	15
Padidan	0000	153	1006·9	...	1012·4	57·4	52·2	47·1	11·0	...	69	...	0·9	...	2	1	0	0	0	0	0	1	26
	0300	...	1008·7	...	1014·2	59·5	53·2	47·0	11·1	...	65	...	1·6	...	2	3	0	1	2	0	0	0	22
	1200	...	1006·2	...	1011·4	84·6	63·3	44·8	10·2	...	26	...	0·9	...	3	0	0	0	0	1	0	2	24
SIND (Lower)																							
Umarkot	0000	55	1009·8	...	1011·8	64·1	60·1	56·9	15·9	...	78	...	1·0	...	6	3	0	1	1	1	1	1	16
	0300	...	1011·4	...	1013·4	66·4	62·9	59·2	18·0	...	81	...	1·1	...	5	3	2	1	1	2	0	2	14
	1200	...	1008·3	...	1010·2	86·9	74·7	68·4	23·8	...	55	...	1·4	...	6	1	0	0	0	4	3	13	3
Chhor	0000	19	1011·3	...	1012·0	60·9	56·3	52·2	13·5	...	74	...	2·0	...	2	0	0	0	2	4	0	1	21
	0300	...	1013·2	...	1013·9	66·3	59·0	52·4	13·8	...	61	...	2·2	...	5	5	1	0	0	3	1	0	15
	1200	...	1009·9	...	1010·6	86·5	69·2	57·5	16·5	...	38	...	1·8	...	1	3	1	0	3	11	3	2	6
Hyderabad	0000	96	1008·3	...	1011·8	65·2	58·3	52·5	13·5	...	63	...	1·5	...	12	3	0	0	0	6	0	0	9
	0300	...	1010·7	—1·6	1014·1	65·9	58·6	52·4	13·5	+1·5	61	+6	2·0	+1·1	15	1	0	1	0	4	0	0	9
	1200	...	1007·9	...	1011·2	86·0	65·6	49·8	12·3	...	29	...	1·1	...	6	9	0	1	2	7	0	1	4
Karachi(Drigh Road) ...	0000	73	1009·7	...	1012·3	66·2	59·2	52·7	14·1	...	64	...	1·6	...	13	3	0	0	0	0	1	1	12
	0300	...	1011·4	...	1014·0	68·2	60·5	53·3	14·3	...	63	...	2·0	...	5	3	0	0	0	0	1	2	19
	1200	...	1008·6	...	1011·1	85·0	67·7	55·0	15·3	...	37	...	1·3	...	0	6	3	0	2	11	7	0	1
Karachi(Manora)	0000	13	1011·7	...	1012·2	71·5	66·0	61·8	19·3	...	73	...	1·5	...	0	8	0	0	0	0	3	0	19
	0300	...	1013·3	—1·9	1013·8	72·8	66·3	61·5	19·1	+3·1	69	+3	2·1	+0·9	0	9	1	0	0	0	3	0	17
	1200	...	1010·7	...	1011·1	81·9	71·3	65·1	21·4	...	58	...	1·7	...	0	3	3	2	0	10	10	0	2
Badin	0000	31	(h) 1011·9	...	1012·7	64·0	59·3	54·7	15·1	...	75	...	0·9	...	5	(i) 4	0	0	0	4	3	2	(i) 4
	0300	...	1013·1	—0·7	1014·2	65·2	59·6	55·3	14·8	+1·0	71	+11	1·0	0·0	10	(i) 4	0	0	0	3	1	1	(i) 3
	1200	...	1010·4	...	1011·5	85·9	68·8	56·6	16·3	...	39	...	1·0	...	2	(i) 9	0	0	0	3	1	3	(i) 4

(R) Register not received. (e) Mean of 26 days. (h) Mean of 23 days. (i) Mean of 22 days.

TABLE II—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF NOVEMBER, 1951

Sub-Division and Station	Hours of Observation	Height of barometer above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. & M.S.L. or nearest GPKM level.	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction. Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mb.	°F	°F	°F	Mb.	Mb.	%	%	Octas										
HILL STATIONS excluding Kashmir and Baluchistan																							
Murree	0000	7,113	785·5	...	797·4	47·3	38·3	24·4	4·7	...	42	...	1·4	...	0	1	1	10	0	3	14	1	0
	0300	...	786·9	—0·6	798·8	49·8	40·0	26·2	4·9	+0·4	40	·0	2·6	+1·0	2	0	7	5	0	2	3	5	6
	1200	...	785·7	...	797·4	51·9	42·9	31·7	6·2	...	48	...	2·6	...	0	1	6	3	0	0	8	6	6
Cherat	0000	4,272	871·3	...	900·8	55·3	46·9	36·3	7·6	...	50	...	1·1	...	16	1	0	0	11	0	0	2	0
	0300	...	872·6	—0·9	902·1	56·3	47·5	37·1	7·6	+1·9	48	+4	2·0	+0·6	14	1	0	3	3	0	0	9	0
	1200	...	871·2	...	900·3	62·4	50·8	38·7	8·0	...	41	...	1·2	...	8	0	0	1	12	0	1	6	2
Drosh	0000	4,806	857·1	...	903·9	48·0	40·4	28·9	5·5	...	49	...	1·1	...	0	0	0	2	0	1	0	0	27
	0300	...	859·0	—0·2	905·9	47·5	40·1	28·6	5·5	+0·4	47	—6	3·5	+1·8	0	0	1	1	0	0	0	0	28
	1200	...	855·0	...	900·6	60·5	45·4	21·4	4·3	...	25	...	2·9	...	0	0	2	2	1	1	1	0	23
Parachinar	0000	5,673	827·5	...	796·6	44·8	37·7	26·9	5·2	...	52	...	1·5	...	15	1	0	0	0	0	1	4	9
	0300	...	829·3	—0·7	798·4	48·4	40·0	28·5	5·4	+0·3	46	—2	2·2	+0·7	5	2	0	1	0	0	1	2	19
	1200	...	827·9	...	797·9	61·7	46·1	25·9	5·1	...	28	...	2·5	...	0	1	0	27	0	0	0	0	2
Wana	0300	4,503	861·0	...	898·0	47·0	40·5	31·0	6·0	+1·8	54	+1	1·4	+0·6	0	0	0	0	0	0	0	0	30
	1200	...	860·1	...	896·1	60·7	49·6	37·5	7·7	...	43	...	1·5	...	0	0	0	0	0	0	0	1	29
AFGHANISTAN																							
Jalalabad	0300	1,950	946·7	...	1015·7	53·5	47·6	42·0	8·9	...	63	...	1·9	...	0	0	0	0	0	12	7	0	11
	1200	...	943·5	...	1009·5	75·0	60·4	50·3	12·0	...	41	...	2·1	...	0	2	6	1	0	0	2	0	19
Kabul	0300	5,955	824·4	...	802·3	40·3	33·3	21·1	4·0	+0·4	47	—10	1·9	—0·1	4	3	0	0	6	9	5	3	0
	1200	...	821·6	...	801·2	60·7	45·7	27·4	5·2	...	29	...	2·6	...	9	7	2	3	3	1	1	1	3
Kandahar	0300	3,462	897·4	...	901·1	38·0	35·3	30·8	5·9	...	77	...	0·8	...	0	0	0	0	0	3	0	0	27
	1200	...	894·8	...	898·2	68·1	54·7	41·4	9·3	...	39	...	1·1	...	0	0	0	0	0	1	0	0	29
IRAN																							
Jusk	0300	13	1013·6	...	1014·1	69·4	62·9	56·8	16·7	...	67	...	0·7	—0·7	6	15	8	0	0	0	0	0	1
	1200	...	1012·2	...	1012·6	82·9	72·5	66·4	22·6	...	60	...	0·5	...	4	2	6	3	0	0	2	8	5
ARABIA																							
Muscat	0300	20	1014·5	...	1015·0	77·9	69·4	64·3	20·8	...	63	...	0·8	—0·5	(b) 0	0	1	4	2	1	3	9	9
	1200	...	1012·1	...	1012·6	80·4	71·4	66·5	22·2	...	63	...	0·5	...	4	0	8	1	0	0	0	15	0
Kuwait*	0500	16	1016·1	...	1016·7	67·8	×	×	×	...	×	...	1·6	...	1	0	2	2	0	3	13	7	2
	1200	...	1013·8	...	1014·4	75·7	×	×	×	...	×	...	1·6	...	4	2	6	3	0	0	2	8	5

× Data not available. (b) Mean of 29 days. * Observations recorded at 0500 hrs. G.M.T. instead of 0300 hs. G.M.T.

TABLE III—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF NOVEMBER, 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Numbers of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Thick dust haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (NORTH)																					
Pabna	85·9	+0·4	91	4	64·9	+1·8	58	29,30	1·30	+0·60	1·15	26	1	0·0	*	...	0	0	0	0	0
Rajshahi ...	...	...	...	...	...	...	...	...	0·80	+0·27	0·80	26	1	+0·2	...	...	0	0	0	0	0
Sirajganj ...	81·7	...	86	2, 10	65·8	...	58	29, 30	3·26	+2·57	1·92	26	2	+1·2	1·2	...	0	0	4	0	0
Bogra	83·9	+1·5	79	13	64·8	+2·0	58	29	1·22	+0·45	0·84	26	3	+2·2	1·3	+0·4	1	0	3	0	0
Dinajpur ...	84·0	+1·5	89	2, 8	62·4	+1·4	54	28	0·61	+0·17	0·51	28	2	+1·4	1·3	+0·2	0	0	2	0	0
Rangpur ...	...	...	...	...	...	...	...	...	1·19	+0·79	0·40	28	4	+3·5	...	...	0	0	1	0	0
EAST PAKISTAN (EAST)																					
Cox's Bazar ...	87·5	+3·1	91	3,4	67·9	+0·8	60	30	0·35	—2·91	0·15	27	2	—1·1	1·6	+0·5	0	0	0	0	0
Chittagong ...	85·8	+2·2	89	6, 7, 13	67·0	+1·5	60	29, 30	0·00	—2·17	0·00	...	0	—2·0	2·1	—1·0	0	0	0	0	0
Noakhali (R) ...																					
Comilla	80·3	—3·7	87	20, 21	68·7	+4·6	59	30	1·40	+0·11	0·75	27	2	+0·4	1·4	+0·3	0	0	1	0	0
Narayanganj ...	86·7	+2·8	90	4	68·3	+2·2	60	29, 30	0·75	—0·20	0·72	27	1	—0·3	*	...	0	0	0	0	0
Brahmanbaria ...	84·8	—0·4	89	5 days	67·8	+2·2	60	29	0·88	—0·16	0·88	27	1	—0·5	1·3	...	0	0	1	0	0
Srimangal ...	84·0	—1·5	88	2, 6	61·2	+1·6	52	30	1·32	—0·09	1·10	27	2	+0·3	0·2	—1·0	1	0	2	0	0
Mymensingh ...	82·4	—0·5	85	2	66·6	+2·1	59	29, 30	3·04	+2·16	2·25	4	3	+2·0	1·8	+1·2	0	0	0	0	0
EAST PAKISTAN (DELTAIC)																					
Faridpur ...	78·4	—3·9	85	6	65·2	+1·2	57	29, 30	1·50	+0·40	0·87	27	4	+2·6	0·4	—1·0	0	0	0	0	0
Barisal	84·2	+1·0	88	3, 4	68·0	+2·4	60	30	1·18	—0·36	0·70	27	3	+1·3	1·5	+0·4	0	0	0	0	
Khulna	85·1	+1·6	88	4 days	67·7	+2·1	60	29	0·77	—0·35	0·77	27	1	—0·8	1·4	—0·2	0	0	0	0	0
Jessore	85·5	+1·3	90	2, 4, 10	67·7 (V)	...	...	...	1·05	+0·10	1.00	26	1	—0·1	1·5	+0·5	0	0	4	4	1
Satkhira	84·9	—0·3	88	9, 10, 11	65·3	+2·1	57	24, 30	0·84	+0·10	0·63	27	2	+0·8	1·1	+0·2	0	0	0	0	0
KASHMIR																					
Srinagar (X) ...																					
Gulmarg (X) ...																					
Dras (X)																					
Leh (X)																					
Skardu (X)																					
Gilgit (X)																					
Misgar	49·3	...	58	1	23·9	...	14	27	0·06	...	0·06	2	0	...	2·3	...	0	0	0	0	0
Jammu (X)																					
Kargil (X)																					
Gurez (X)																					
NORTH PUNJAB																					
Lahore	84·5	+1·6	94	2	53·2	+5·9	45	18, 19, 20	1·31	+1·21	1·25	25	1	+0·7	1·7	+0·9	1	0	0	0	0
Sialkot	82·5	+1·9	91	2, 11	57·9	+8·8	51	4 days	1·93	+1·76	1·18	26	2	+1·6	1·2	+0·6	1	0	0	0	0
Jhelum	82·3	...	93	5	50·8	...	42	18, 19	1·86	...	1·26	26	2	...	1·4	...	1	0	1	0	0
Rawalpindi ...	79·7	+2·0	89	1	48·7	+4·3	42	18, 19	2·12	+1·84	1·17	26	2	+1·5	1·6	+0·5	1	0	1	0	0
Khushab ...	84·1	+1·3	94	5	53·6	+3·8	46	19, 30	0·64	+0·56	0·33	25	2	+1·8	3·2	+1·2	0	0	0	0	0
Lyallpur	84·0	+2·0	93	2, 3	54·2	+5·1	48	4 days	0·37	+0·26	0·37	25	1	+0·8	1·8	+0·7	0	0	7	0	0
SOUTH PUNJAB																					
Montgomery ...	84·9	+1·5	95	1	54·0	+2·4	46	19	1·05	+1·00	1·05	25	1	+0·8	(X)	(X)	0	0	1	0	0
Multan	85·5	+2·6	95	9	55·8	+4·9	48	29, 18	0·05	—0·01	0·05	1	0	—0·1	1·8	+0·9	0	0	0	0	2
Fort Abbas ...	92·6	...	1·01	4 days	*	...	...	...	1·22	1·22	1·22	25	...	(X)	*	...	0	0	0	0	0
Bahawalpur ...	86·6	+1·2	97	1	54·8	+4·2	48	19, 27	0·07	+0·06	0·07	25	0	0·0	1·3	0·0	0	0	0	0	0
Khanpur ...	87·4	+0·4	96	2, 7	55·4	+4·0	47	27	0·10	—0·02	0·10	24	1	+0·9	3·0	+0·2	0	0	0	0	0
N.-W.F.P. (UPPER)																					
Chakdara ...	76·2	...	85	1	47·1	...	39	30	1·35	...	0·87	26	3	...	3·6	...	0	0	0	0	0
Peshawar ...	79·1	+2·3	87	7	52·1	+3·2	45	30, 18, 22	0·78	+0·47	0·50	25	2	+1·4	2·2	+1·3	1	0	0	0	1
Landikotal ...	71·4	...	81	20	45·4	...	38	29, 30	0·85	...	0·64	25	2	...	1·4	...	2	0	0	0	0

(V) Extrapolated from Khulna. (X) Data not available. (R) Registers not received. * Data rejected.

TABLE III—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF NOVEMBER, 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0.10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Haze	Dust-storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
N.-W.F.P. (Lower)																					
Bannu	81·7	+1·5	89	8	53·7	+3·8	45	19, 30	0·45	+0·29	0·45	25	1	+0·8	2·3	...	0	0	0	0	...
Miranshah ...	74·9	+1·5	82	4 days	48·6	+2·2	38	25	0·77	+0·75	0·70	25	1	+1·0	*	*	0	0	0	0	0
D. I. Khan ...	82·3	+0·4	91	3, 4	*	*	*	*	0·12	—0·03	0·12	25	1	+0·7	1·4	+0·5	0	0	0	0	...
BALUCHISTAN (North)																					
Fort Sandeman ...	74·5	+3·1	84	10	44·4	+3·3	36	27	0·25	+0·12	0·25	25	1	+0·8	1·5	+0·4	0	0	0	0	0
Hindubagh ...	71·7	...	83	20	38·2	...	27	28	0·00	...	0·00	...	0	...	*	...	0	0	0	0	0
Loralai (R) ...																					
Harnai	...	...	...	...	...	...	...	...	0·09	—0·09	0·09	25	0	—0·3	...	...	...	...	...	...	...
Sibi	88·5	+2·1	97	1	53·1	0·0	45	22	0·00	—0·02	0·00	...	0	—0·1	0·8	—0·9	0	0	0	0	0
Quetta	68·2	...	76	11	31·4	...	21	27	0·06	...	0·06	24	0	...	2·7	+1·2	0	0	1	0	0
Quetta (Samangli)	68·5	...	79	11	27·2	...	20	20, 24, 30	0·04	...	0·04	24	0	...	3·4	...	0	0	0	0	0
Chaman	71·7	+4·1	81	10	45·1	+1·7	32	27	0·00	—0·23	0·00	...	0	—0·7	3·9	+0·4	0	0	0	0	0
Nushki	75·7	...	86	1, 10	50·9	...	42	30	0·00	...	0·00	...	0	...	6·0	...	0	0	0	0	1
Kalat	67·1	+3·4	78	10	32·0	+1·4	21	12	0·52	+0·29	0·45	24	1	+0·2	4·4	+1·0	0	0	0	0	0
Dalbandin ...	77·5	+1·2	88	1	41·1	+0·6	33	19	0·00	—0·06	0·00	...	0	—0·2	3·0	+0·6	0	0	0	6	0
Nokkundi ...	81·6	+1·6	91	1, 11	48·4	—1·3	41	26, 27	0·00	—0·03	0·00	...	0	—0·1	4·2	—0·3	0	0	0	0	...
BALUCHISTAN (South)																					
Las Bela (R) ...																					
Ormara	84·7	—1·0	93	8	65·6	+1·8	56	26	0·00	0·00	0·00	...	0	0·0	4·7	+0·7	0	0	0	0	0
Pasni	85·7	+0·3	96	9	62·2	+1·7	53	25	0·00	—0·14	0·00	...	0	0·0	5·2	+0·9	0	0	0	0	0
Turbat (—)	93·8	...	100	1	62·3	...	53	25, 26	0·00	...	0·00	...	0	...	5·2	...	0	0	0	0	0
Panjgur ...	76·5	+0·6	86	1	41·7	—3·9	35	25, 26	0·00	—0·05	0·00	...	0	—0·2	4·4	+0·5	0	0	0	0	0
SIND (Upper)																					
Reti	88·9	...	98	1, 2	53·9	...	44	30	0·00	...	0·00	...	0	...	3·8	...	0	0	0	0	0
Jacobabad ...	87·4	+1·5	96	1, 2, 4	57·5	+3·0	47	20	0·00	—0·05	0·00	...	0	—0·1	3·1	+0·8	0	0	1	3	0
Sukkur	88·1	+1·9	98	2	59·0	+0·9	50	30	0·00	0·00	0·00	...	0	0·0	*	...	0	0	1	1	0
Pad Idan ...	87·2	...	97	1	54·1	...	45	26, 27	0·00	...	0·00	...	0	...	0·7	...	0	0	0	0	0
SIND (Lower)																					
Umar Kot ...	91·9	...	100	1	61·6	...	50	26	0·00	...	0·00	...	0	...	3·1	...	0	0	2	0	0
Chhor	90·8	...	97	7, 8	58·8	...	47	30	0·00	...	0·00	...	0	...	2·1	...	0	0	1	0	0
Hyderabad ...	89·9	+1·1	99	9	63·4	+4·6	52	30	0·00	—0·06	0·00	...	0	—0·1	2·5	—0·6	0	0	0	2	0
Karachi (Drigh Road).	89·5	...	98	7	63·7	...	54	28	Trace	...	0·00	...	0	...	0	...	0	0	0	0	1
Karachi (Manora)	85·7	+0·5	93	7	70·2	+3·3	64	29	0·09	+0·01	0·00	...	0	—0·3	1·7	—0·9	1	0	0	4	0
Badin	90·3	+0·1	104	1, 5	57·0	—2·9	41	20	(i) 0·00	...	0·00	...	0	...	(i) 3·4	...	0	0	0	0	0
HILL STATIONS excluding Kashmir and Baluchistan.																					
Murree	60·6	+1·1	67	10	45·0	+4·0	33	29	2·61	+1·88	1·29	25	3	+1·8	5·3	+2·0	3	1	3	...	...
Cherat	69·0	+3·6	81	7	52·4	+2·7	43	4 days	2·82	+2·45	1·96	26	2	+1·4	7·1	+1·0	1	0	2	0	...
Drosh	66·7	+2·6	76	1	45·3	+1·7	38	29	1·09	+0·75	0·62	12	3	+1·8	2·5	+0·9	0	0	0	0	...
Parachinar ...	68·4	+3·7	79	1	43·1	+3·8	35	27	0·92	+0·52	0·68	25	2	+0·8	3·1	+1·3	2	0	0	0	...
Wana	71·9	+1·8	80	3, 10	38·0	+2·5	29	30	0·12	+0·05	0·12	25	1	+0·8	0·1	...	0	0	0	0	1
AFGHANISTAN																					
Jalalabad ...	78·7	...	88	4	48·4	...	42	19	0·27	...	0·22	5	1	...	1·7	...	0	0	0	0	0
Kabul	65·8	+4·7	76	10	35·7	+3·4	29	22, 28	0·20	—0·40	0·10	12, 25	2	+0·5	3·1	+1·3	1	2	0	0	0
Kandahar ...	75·9	...	85	1, 10	31·7	...	25	14	0·00	...	0·00	...	0	...	0·5	...	0	0	0	0	0
IRAN																					
Jask	83·9	—0·3	88	4 days	66·9	—1·7	61	27, 28	0·09	—0·24	0·00	...	0	—0·5	4·1	—1·6	0	0	0	0	4
ARABIA																					
Muscat	82·7	—1·6	87	2, 4, 5	*	...	...	...	0·00	—0·39	0·00	...	0	—0·7	(b) 3·2	+0·5	0	0	0	0	0
Kuwait	77·0	...	85	2, 8	61·2	...	52	21, 29	0·00	...	0·00	...	0	...	7, 5	...	0	0	0	0	0

(R) Register not received. (—) Data not available. (i) Mean of 22 days.

(b) Mean of 29 days. (*) Data rejected.

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PAKISTAN WEATHER REVIEW 1951

MONTHLY WEATHER REPORT

DECEMBER

PUBLISHED BY THE AUTHORITY OF THE GOVERNMENT OF PAKISTAN

Chief Features :— (1) Feeble western disturbance activity during the first three weeks. Only two active western disturbances affected the western region during the fourth week.

(2) A cyclonic storm in the South-East Bay of Bengal during the first fortnight.

West Pakistan : Active western disturbances were markedly absent during the first three weeks when the weather remained dry.

Two active western disturbances affected the weather over West Pakistan, thereafter. The first one bordering Baluchistan on the 24th moved north-eastwards across north Baluchistan and the northern region of West Pakistan causing a marked spell of Wet weather in North Baluchistan on the 26th and 27th and over the extreme north, during the period 26th to 29th. It was immediately followed by a secondary disturbance which, moving eastwards across the extreme north caused rain/thunder-showers with a few falls of snow in the upper North-West Frontier Province and the North Punjab hills on the 30th and 31st.

Night temperatures were generally appreciably to markedly above normal in West Pakistan from the 18th to 29th.

Some of the noteworthy amounts of rainfall are :—

Nokkundi 1" ; Chaman 3/4 ", Dalbandin 1/4" on the 26th ; Drosh 1", Loralai 3/4", Kalat ~~4/2",~~ 1/2 " Murree, Parachinar, Harnai 1/4" each on the 27th ; Drosh 1/4" on 28th and 29th ; Chakdara 1/4 " on 29th and Murree 1/4" on 29th and 30th.

The mean actual rainfall was in moderate defect in north Baluchistan and in large defect in the North-West Frontier Province, the north Punjab while no rain fell in Sind south Baluchistan and the south punjab. The mean Max. temp. was in excess over the entire region outside the lower North-West Frontier Province and south Baluchistan where it was normal. The mean Min. temp. was in excess over the Punjab, the lower North-West Frontier Province and north Baluchistan and normal over the remaining West Pakistan. The mean relative humidity was in excess over the entire region except upper Sind and Baluchistan where it was normal. Skies were cloudy as usual in upper Sind but less cloudy over the remaining West Pakistan.

East Pakistan : A depression which appeared in the south-east Bay of Bengal on the 6th, intensified into a severe cyclonic storm on the 9th when it was centred at 0300 hrs. G. M. T. within one degree of latitude 14 1/2 °N and longitude 89°E. The storm moving practically northwards thereafter, weakened into a deep depression by the 12th morning when it was centred near latitude 20 °N and longitude 89 1/2 °E. It further weakened into a trough of low by the 13th morning and moved away inland across Arakan coast by the next day causing 1/2 " of rain at Cox's Bazar on the 13th and 16th, and 1/4" at Chittagong on the 15th.

No rain fell over the Northern and the Deltaic Sub-division and was in large defect over the Eastern Sub-division. The mean max. temp. was in excess over the Northern Sub-division and normal over the remaining East Pakistan. The mean temp. was in excess over the entire region except the Northern Sub-division where it was normal. The mean relative humidity was normal over the entire region outside the Northrern Sub-division where it was in defect. Skies were more clouded than usual over the entire region except the Northern Sub-division where they were less clouded than usual.

Table 1 contains the Divisional and Sub-divisional means of rainfall, temperature, humidity and cloud for the 5 chief Divisions and 12 Sub-divisions of Pakistan. These means are based on the observations at the stations whose monthly means are given in the subsequent tables.

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Table 1.—Divisional and sub-divisional means December 1951

Division	PRECIPITATION				DEPARTURE FROM NORMAL OF				
							0300 hrs. G. M. T.		
	Actual	Normal	Departure from normal	Percentage departure from normal	Maximum temperature	Minimum temperature	Vapour pressure	Relative humidity	Cloud
1	2	3	4	5	6	7	8	9	10
	"	"	"		°	°	%	%	
East Pakistan	0.07	0.24	—0.17	—71	+1.8	+3.2	+1.2	—3	+0.2
Mean of East Pakistan	0.07	0.24	—0.17	—71	+1.8	+3.2	+1.2	—3	+0.2
Punjab...	0.05	0.44	—0.39	—85	+2.9	+2.5	+0.9	+5	—0.7
N.-W. F. P.	0.06	0.50	—0.44	—88	+2.3	+1.7	+0.9	+7	—1.4
Baluchistan	0.34	0.67	—0.33	—49	+3.7	+2.5	—0.1	—1	—0.8
Sind	0.00	0.13	—0.13	—100	+3.7	+1.1	+0.6	+4	—0.6
Mean of West Pakistan excluding Baluchistan	0.03	0.34	—0.31	—90	+3.1	+1.9	+0.8	+5	—0.8
Sub-Division									
East Pakistan (North)	0.00	0.10	—0.10	—100	+3.0	+1.7	+0.6	—8	—0.3
East Pakistan (East)	0.18	0.40	—0.22	—55	+1.7	+3.8	+1.3	—4	+0.3
East Pakistan (Deltaic)	0.00	0.19	—0.19	—100	+1.2	+3.1	+1.3	—1	+0.4
Kashmir *	...	...	...	...	...	...	...	...	...
North Punjab	0.09	0.62	—0.53	—85	+1.9	+3.0	+1.4	+4	—0.7
South Punjab	0.00	0.21	—0.21	—100	+3.4	+2.2	+0.3	+7	—0.7
N.-W. F. P. (Upper)	0.09	0.67	—0.58	—87	+2.7	+1.4	+1.3	+11	—1.3
N.-W F. P. (lower)	0.05	0.45	—0.40	—89	+2.1	+2.1	+0.8	+5	—1.5
Baluchistan(North)	0.43	0.66	—0.23	—35	+4.4	+3.1	+0.3	—3	—0.6
Baluchistan (South)	0.00	0.74	—0.74	—100	+1.5	+0.5	+0.9	+4	—1.5
Sind (Upper)	0.00	0.10	—0.10	—100	+4.3	+1.7	+0.0	—3	—0.1
Sind (Lower)	0.00	0.15	—0.15	—100	+3.3	+0.6	+1.1	+9	—0.9

*Data incomplete.

Contd.on P.126

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean Pressure: Stn. level reduced to standard temp. and gravity	Mean Pressure: Departure from normal	Mean Pressure: Reduced to standard temp. and M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Feet	Mbs	Mbs	°F	°F	°F	Mbs	Mbs	%	%			octas									
Satkhira	0000	16	1013.5		1014.1	58.6	58.1	56.3	16.5		97		2.2		4	2	0	0	0	0	0	2	23
	0300		1015.1	—1.7	1015.7	67.4	62.2	58.3	16.7	+0.9	74	—1	1.8	+0.7	8	6	0	0	2	1	0	12	2
	1200		1011.9		1012.5	73.2	68.4	65.2	21.1		76		2.2		1	0	0	0	0	0	0	5	25
KASHMIR																							
Srinagar*	0000	5,205																					
	0300																						
	1200																						
Gulmarg*	0000	8,709																					
	0300																						
	1200																						
Dras*	0000	10,059																					
	0300																						
	0300																						
	1200																						
Leh*	0000	11,529																					
	0300																						
	1200																						
Skardu*	0000	7,505																					
	0300																						
	1200																						
Gilgit*	0000	4,890																					
	0300																						
	1200																						
Misgar	0000	10,190	700.6		704.5	20.7	18.2	12.8	2.6		70	...	2.3		0	0	2	0	0	0	2	0	27
	0300		701.6	...	705.5	19.2	17.1	12.1	2.6	...	74	...	2.9	...	0	0	1	0	0	0	6	0	24
	1200	...	699.1	...	703.0	30.3	25.1	15.7	3.1	...	55	...	3.2		0	0	9	0	0	0	5	0	17
NORTH PUNJAB																							
Lahore	0000	702	991.7	...	1017.6	45.8	45.3	44.9	10.0	...	96	...	1.1	...	0	0	0	0	0	0	0	0	31
	0300	...	993.1	—0.2	1019.0	47.5	46.3	44.9	10.1	+1.2	91	+6	1.6	—0.8	0	0	0	1	0	0	1	0	29
	1200	...	991.3	...	1016.1	67.6	58.8	51.1	13.0	...	56	...	1.9	...	2	0	0	0	0	0	2	1	26
Sialkot	0000	830	986.8	...	1017.1	49.1	47.8	46.6	11.2	...	89	...	2.0	...	(a) 0	3	2	0	0	0	0	0	256
	0300	...	988.6	—0.3	1018.9	53.1	48.8	46.3	10.2	+0.9	70	—14	2.0	—0.1	0	4	0	0	0	0	0	4	28
	1200	...	986.2	...	1015.3	57.8	54.7	51.6	13.0	...	62	...	3.0	...	(a) 0	0	0	0	0	0	0	1	28
Jhelum	0000	765	989.7	...	1018.1	46.1	44.9	43.5	9.7	...	90	...	1.8	...	0	0	0	0	0	0	0	0	30
	0300	...	991.1	...	1019.5	47.3	45.7	43.8	9.8	...	89	...	3.0	...	0	0	0	0	0	0	1	2	28
	1200	...	989.5	...	1016.5	64.0	55.8	48.2	11.9	...	57	...	2.7	...	0	0	0	0	1	0	0	1	29
Rawalpindi	0000	1,674	957.4	...	1018.5	43.0	41.8	40.7	8.5	...	92	...	0.2	...	0	0	0	0	0	0	0	0	31
	0300	...	959.3	—0.3	1020.4	43.6	42.1	40.6	8.5	+1.5	88	+12	1.9	—0.7	1	1	0	0	0	1	0	1	27
	1200	...	957.2	...	1016.5	60.3	51.8	44.6	9.7	...	54	...	2.2	...	0	0	0	0	0	2	5	0	24
Khushab	0000	616	994.7	...	1017.6	44.8	43.4	41.9	8.9	...	88	...	0.3	...	1	2	3	2	4	3	3	3	10
	0300	...	996.3	—0.9	1019.0	47.1	45.0	42.5	9.3	+2.7	85	+24	1.3	—1.2	3	3	2	4	5	3	6	2	3
	1200	...	994.0	...	1015.8	69.6	58.0	47.5	11.3	...	46	...	1.5	...	7	1	1	0	2	3	5	9	3
Lyallpur	0000	605	995.1	...	1017.4	46.9	45.5	44.2	9.7	...	88	...	1.4	...	0	1	1	1	0	1	0	1	26
	0300	...	996.3	—0.5	1018.7	45.9	44.2	43.7	9.1	+0.6	88	+12	2.3	—0.9	2	1	0	1	4	3	0	1	19
	1200	...	994.6	...	1016.0	68.2	57.4	48.0	11.3	...	47	...	1.6	...	0	0	0	1	0	0	2	2	26
SOUTH PUNJAB																							
Montgomery	0000	558	997.0	...	1017.7	44.0	43.0	42.2	9.0	...	92	...	0.4	...	0	0	0	0	0	3	2	6	20
	0300	...	998.2	—0.5	1018.8	46.7	44.7	42.1	9.2	+0.4	85	+8	0.7	—1.1	0	0	0	0	0	2	1	13	14
	1200	...	996.7	...	1016.1	71.9	63.4	57.5	16.1	...	59	...	0.8	...	0	0	0	0	0	2	0	0	29

*Date not avaibale.

(a) Mean of 30 days.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean Pressure			Mean temperature of the air and humidity							Total Cloud amount		Wind direction Number of observations from:—								
			Stn. level reduced to Standard temp. and gravity	Departure from normal	Reduced to standard temp. and M.S.L. or nearest GPKM level	Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	G.M.T.	Feet	Mbs	Mbs	Mbs	°F	°F	°F	Mbs	Mbs	%	%	Octas										
Multan	0300	413	1004.0	—0.1	1019.2	52.9	48.2	42.5	9.4	—0.8	69	—3	1.4	—0.4	6	0	0	0	6	0	0	1	18
	1200	...	1001.5	...	1016.1	72.0	58.8	46.9	11.0	...	41	...	1.6	...	3	0	5	0	5	0	0	0	18
Fort Abbas	0000	475	999.3	...	1017.0	47.0	41.2	31.5	6.3	...	55	...	0.0	...	2	1	0	12	0	9	0	1	6
	0300	...	999.8	...	1017.3	52.8	46.7	39.0	8.1	...	60	...	0.4	...	0	5	5	7	0	11	0	0	3
	1200	...	998.8	...	1015.6	71.6	61.5	53.8	14.1	...	54	...	0.2	...	0	8	0	6	0	12	0	1	4
Bahawalpur																							
	0300	384	1003.6	—1.3	1017.5	47.3	45.2	42.6	9.3	+0.6	85	+11	0.8	—1.1	2	3	3	6	2	0	0	0	15
	1200	...	1002.2	...	1015.7	71.9	61.5	52.1	14.0	...	52	...	0.7	...	0	1	0	0	0	0	1	0	29
Khanpur	0300	297	1007.6	—0.3	1018.6	48.0	45.1	41.5	8.9	+0.9	77	+11	1.4	—0.2	8	6	6	1	4	1	0	1	4
	1200	...	1005.1	...	1015.6	75.1	60.4	47.7	11.2	...	38	...	2.0	...	5	8	0	0	4	5	0	3	6
N. W. F. P. (Upper)																							
Chakdara	0000	2,197	939.2	...	1019.5	42.0	39.3	35.5	7.1	...	78	...	1.4	...	1	1	5	1	0	1	2	1	19
	0300	...	940.3	...	1020.9	41.4	39.1	36.1	7.2	...	81	...	2.6	...	14	3	0	0	1	1	1	1	10
	1200	...	937.7	...	1015.3	59.3	51.3	43.9	9.7	...	56	...	2.8	...	2	0	0	0	7	10	2	1	9
Peshawar	0000	1,175	975.9	...	1018.8	45.6	42.4	37.6	7.8	...	77	...	1.5	...	0	0	0	0	18	7	0	0	6
	0300	...	977.2	—0.8	1020.2	45.4	42.2	37.4	7.7	+1.3	76	+11	2.7	—1.3	0	0	0	1	8	9	0	0	13
	1200	...	975.0	...	1016.6	62.1	53.3	43.8	9.9	...	51	...	3.3	...	2	4	0	2	0	0	0	0	23
Landikotal	0000	3,503	896.6	...	901.8	40.5	36.2	29.3	5.6	...	63	...	1.9	...	0	0	0	1	0	0	0	1	29
	0300	...	897.6	...	902.7	43.5	37.7	28.8	5.4	...	54	...	2.4	...	0	1	0	2	0	0	0	2	26
	1200	...	895.9	...	901.0	54.7	45.4	33.6	6.6	...	44	...	3.3	...	0	2	0	1	0	0	0	5	23
N-W. F. P. (Lower)																							
Bannu	0000	1,264	972.7	...	1018.8	46.4	42.7	37.5	7.7	...	73	...	0.8	...	7	1	4	2	4	5	6	0	2
	0300	...	973.7	...	1019.9	47.0	42.7	35.9	7.5	+0.9	66	+6	0.9	—1.3	0	2	1	2	0	0	4	7	15
	1200	...	971.8	...	1016.0	67.4	54.4	39.3	8.6	...	37	...	1.8	...	1	2	2	6	4	0	1	0	15
Miranshah	0000	3,026	914.9	...	904.0	41.8	36.6	28.0	5.2	...	59	...	1.1	—0.9	6	6	0	0	1	1	1	3	13
	0300	...	913.5	...	902.6	44.4	38.2	28.9	5.4	+0.7	55	+1	2.1	...	0	3	9	13	1	0	1	0	3
					(a)	(a)	(a)	(a)	(a)		(a)		(a)										
	1200	...	912.3	...	901.7	62.7	49.6	33.2	6.9	...	36	...	3.2	...	(a)								
D. I. Khan	0000	570	(a) 997.9	...	1019.0	(a) 46.9	45.0	43.0	9.3	...	(a) 85	...	(a) 0.5	...	1	5	0	1	0	0	0	0	(a) 23
	0300	...	997.3	—1.3	1018.5	45.3	43.0	39.0	8.3	+0.9	80	+8	0.1	—2.2	1	0	0	0	0	1	1	1	27
	1200	...	995.7	...	1015.9	69.3	57.6	47.0	11.0	...	45	...	0.7	...	1	1	1	0	0	0	0	1	27
BALUCHISTAN (North)																							
Fort Sandeman	0300	4,614	863.2	+0.5	904.6	40.4	33.9	21.5	4.0	—1.2	47	—26	2.0	—0.6	0	0	1	0	2	0	0	0	28
	1200	...	861.2	...	900.9	61.5	46.2	23.5	4.3	...	24	...	2.7	...	1	0	0	0	0	6	1	1	22
Hindu Bagh	0000	59,09	822.0	...	797.6	36.1	30.8	21.0	3.8	...	54	...	1.3	...	0	0	1	0	0	0	3	0	27
	0300	...	823.4	...	799.8	37.5	32.3	23.0	4.4	...	59	...	1.7	...	0	0	6	0	0	4	5	2	14
	1200	...	821.9	...	797.2	54.7	42.4	23.7	5.2	...	36	...	2.4	...	0	0	13	0	0	1	11	0	6
Loralai	0000	4,699	859.0	...	903.5	36.4	34.7	22.4	4.3	...	59	...	1.2	...	0	0	1	4	0	7	11	1	7
	0300	...	859.0	...	903.3	36.5	31.8	21.3	4.2	...	58	...	1.3	...	0	0	0	4	11	1	8	2	5
	1200	...	858.5	...	901.0	58.8	45.8	27.8	5.4	...	31	...	2.3	...	0	0	0	13	0	1	1	1	15
Sibi	0000	441	1000.9	...	1016.9	50.6	45.1	38.0	7.7	...	61	...	0.6	...	0	0	0	2	0	0	0	0	27
	0300	...	1002.1	—0.1	1018.3	51.8	45.4	37.0	7.5	+1.0	57	+7	0.9	—1.4	1	1	0	0	0	1	0	3	25
	1200	...	999.7	...	1015.1	75.2	56.4	35.3	6.8	...	23	...	2.2	...	0	1	0	10	0	8	2	1	9
Quetta	0300	5,490	835.5	—0.8	797.9	35.6	32.5	27.8	5.2	+0.2	74	+1	2.1	—0.6	1	2	1	4	4	2	1	0	16
	1200	...	833.4	...	797.5	56.2	44.9	31.7	5.9	...	39	...	5.3	...	9	1	0	0	1	2	1	13	4

(a) Mean of 30 days.

Contd. on P. 127

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: St. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to Standard & M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet point	Dew point	Vapour Pressure	Mean temperature of the air and humidity: Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean amount	Total Cloud amount: Departure from normal	Wind direction Number of observation from :— N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft	Mbs	Mbs	Mbs	°F	°F	°F	Mbs	%	%	Octas											
EAST PAKISTAN (North)																							
Pabna	0300					68.9	63.6	60.0	17.5	+1.3	73	—3											
Sirajgang	0000	49	1012.4		1014.2	58.3	57.6	57.0	15.9		96		0.8		9	1	0	0	0	0	2	1	18
	0300		1014.9		1016.7	66.7	62.6	59.6	17.9		79		1.8		14	0	0	0	0	0	1	3	13
	1200		1011.2		1013.0	70.7	65.7	62.3	19.6		75		1.3		3	0	0	0	0	0	0	0	28
Bogra	0000 (T)	65	1012.2		1014.6	57.9	56.2	54.6	14.9		91		0.9		0	0	0	0	0	0	0	0	31
	0300	63	1014.5	—0.9	1016.8	66.1	61.6	58.3	16.6	+1.3	76	0	1.2	+0.1	8	14	4	0	0	0	1	2	2
	1200		1010.8		1013.0	73.9	65.4	59.7	17.6		62		1.2		1	0	0	0	0	1	1	0	28
Dinajpur	0000	123	1011.9		1016.2	53.1	51.3	49.6	11.9		86		0.1		0	2	0	0	0	0	0	0	29
	0300		1013.7	+0.4	1018.0	65.3	58.9	54.1	13.8	—0.7	68	—13	0.2	—0.8	6	0	0	0	0	0	0	0	25
	1200		1010.4		1014.8	69.5	62.3	57.0	15.8		65		0		0	0	0	0	0	0	0	0	31
EAST PAKISTAN (East)																							
Cox's Bazar	0000	38	1012.9		1014.2	62.0	57.9	60.0	14.7		77		2.5		0	0	1	1	0	0	0	1	28
	0300		1014.1	—0.6	1015.3	72.0	66.1	62.3	19.1	+0.1	71	—7	1.9	+0.2	1	0	0	0	0	0	0	0	30
	1200		1011.8		1013.1	74.2	67.2	62.7	19.4		68		2.1		0	0	0	0	1	0	0	0	30
Chittagong	0300	87	1012.7	—1.0	1015.7	71.7	66.0	62.5	19.7	+1.8	73	—9	2.1	+0.5	4	17	3	0	0	0	0	0	7
	1200		1009.5		1012.9	72.7	66.3	62.1	19.3		69		1.9		8	4	0	0	1	2	6	7	3
Noakhali (Maijdee) (R) ...	0000	22																					
	0300																						
	1200																						
Comilla	0000	29	1013.1		1014.1	59.9	59.1	58.3	16.6		94		1.8		4	0	0	2	1	0	0	1	23
	0300		1014.9	—1.2	1015.9	67.3	63.8	61.5	18.4	+0.9	81	+4	1.7	+0.7	9	1	2	2	3	0	0	1	13
	1200		1011.6		1012.6	73.4	67.3	63.3	19.9		72		1.6		5	0	1	0	1	1	1	1	21
Narayanganj	0000	26	1012.9		1013.9	60.9	59.3	58.0	16.7		91		1.8		4	1	0	0	0	1	0	0	25
	0300		1014.3	—2.0	1015.2	71.3	64.4	59.8	17.2	+0.6	66	—12	1.5	0	7	1	1	0	0	2	3	5	12
	1200		1011.0		1011.9	72.8	65.2	60.2	18.1		65		0.8		0	1	0	0	0	0	0	0	30
Brahmanbaria	0000	32	1013.8		1014.8	61.5	60.4	59.5	17.2		94		1.8		2	0	0	1	0	0	0	0	28
	0300		1015.2		1016.3	71.4	65.5	62.1	18.4	+1.4	73	+2	1.2		9	5	0	0	0	3	0	0	14
	1200		1012.2		1013.3	75.5	67.9	62.7	19.6		65		0.1		0	0	0	0	0	0	0	0	31
Srimangal	0000	69	1012.2		1014.7	54.1	53.7	53.0	13.7		97		2.5		0	0	0	0	0	0	0	0	31
	0300		1014.0	—0.7	1016.5	67.9	64.3	61.9	19.1	+3.6	81	—3	2.0	+0.7	1	4	2	0	1	1	0	0	22
	1200		1010.6		1013.1	66.1	64.7	63.8	20.0		93		1.4		0	0	0	0	0	0	0	0	31
Mymensingh	0000	62	1013.5		1015.5	58.6	57.0	55.9	15.5		91		0.7		0	0	1	0	0	0	0	0	30
	0300		1014.3	—1.1	1016.5	67.0	62.8	59.8	17.9	+1.5	79	—4	1.0	—0.5	0	3	1	0	0	0	0	0	27
	1200		1011.7		1013.9	72.5	64.1	58.1	16.9		61		1.0		0	0	0	0	0	0	0	0	31
EAST PAKISTAN (Deltaic)																							
Faridpur	0000	46	1012.8		1014.4	58.2	57.3	56.4	15.4		94		1.5		4	2	0	0	0	0	0	2	23
	0300		1014.5	—1.1	1016.1	66.5	63.0	60.5	18.4	+2.0	81	+1	1.3	+0.3	11	6	0	0	1	0	0	3	10
	1200		1011.9		1013.5	72.8	66.3	61.9	19.3		69		1.5		3	0	0	0	0	0	0	2	26
Barisal	0000	11	1013.7		1014.1	60.8	59.5	58.4	16.7		91		1.8		4	0	0	0	0	0	0	5	22
	0300		1015.7	—0.7	1016.1	68.5	64.0	61.0	18.7	+1.1	77	—2	2.2	+1.1	10	6	0	0	0	0	0	5	10
	1200		1012.3		1012.7	74.2	66.4	61.1	18.2		63		2.3		1	2	0	0	0	0	1	2	25
Khulna	0000	16	1013.7		1014.2	60.5	58.7	57.2	16.2		88		1.3		0	1	0	0	0	0	0	2	28
	0300		1016.2	—0.8	1016.7	69.6	63.2	58.8	17.1	+1.1	68	+1	1.2	—0.1	0	12	0	1	0	0	2	5	11
	1200		1012.9		1013.4	71.7	65.4	61.8	18.5		69		0.9		0	2	0	1	0	0	0	1	27
Jessore	0000	26	1014.0		1014.9	55.4	54.3	53.2	13.8		93		0.9		3	1	0	0	0	0	1	1	25
	0300		1015.5	—1.3	1016.4	67.9	62.5	60.0	16.8	+1.2	72	—2	0.9	—0.1	9	3	1	0	1	3	1	7	6
	1200		1012.8		1013.6	69.4	64.1	60.5	17.5		73		0		0	0	0	0	0	0	0	0	31

(T) The observations at 0000 hrs. have been recorded from a distant side by PBO Staf

(R) Register not received.

~~*Extra-polated from Brahmanbaria~~

Contd.on P.124

TABLE II.—ABSTRACT OF OBSERVATION RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean Pressure			Mean temperature of the air and humidity							Total Cloud amount		Wind direction. Number of observations from :—								
			Stn. level reduced to standard temp. and gravity	Departure from normal	Reduced to standard temp. and M. S. L. or nearest GPKM level	Dry bulb	Wet bulb	Dew point	Vapour pressur	Departure from normal	Relative humidity	Departure from normal	Mean amount	Departure from normal	N	NE	E	SE	S	SW	W	NW	Calm.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mbs.	OF	OF	OF	mb.	mb.	%	%	Octas										
Quetta (Sumungli)	0000	5,253	844·0	...	798·4	28·4	26·0	21·0	3·9	...	73	...	2·0	...	0	0	1	13	2	0	0	1	14
	0300	...	845·6	...	800·0	31·3	28·9	25·1	4·4	...	75	...	2·0	...	0	0	0	14	3	0	1	0	13
	1200	...	843·7	...	800·0	56·5	44·9	31·2	6·1	...	40	...	3·3	...	3	0	0	2	1	2	0	21	2
Chaman	0000	4,311	871·9	...	903·3	44·7	37·8	25·5	4·8	...	48	...	1·2	...	1	2	20	6	0	1	0	9	1
	0300	...	873·1	+0·2	904·5	44·5	37·8	26·4	5·2	—0·7	51	—9	1·8	—1·1	0	2	14	10	0	0	1	1	3
	1200	...	871·2	...	901·6	58·8	47·1	30·1	6·6	...	38	...	1·9	...	0	1	0	0	0	11	7	10	2
Nushki	0000	3,416	905·6	...	907·3	51·2	43·9	31·0	6·9	...	52	...	0·0	...	0	11	8	1	1	1	0	4	0
	0300	...	907·0	...	908·5	51·4	43·6	33·4	6·6	...	49	...	0·6	...	0	11	11	1	0	1	1	5	1
	1200	...	904·3	...	905·9	66·0	51·9	34·8	7·6	...	35	...	1·5	...	0	0	0	2	0	7	10	12	0
Kalat	0000	6,616	802·0	...	799·3	31·5	28·4	22·7	4·2	...	71	...	1·3	...	0	0	0	11	12	0	0	0	8
	0300	...	802·9	+1·3	800·2	31·4	28·0	22·7	4·0	+0·1	66	+2	1·5	—0·7	0	0	0	2	21	0	0	0	8
	1200	...	801·0	...	798·9	54·5	43·7	30·8	5·6	...	40	...	1·9	...	9	0	0	0	7	3	2	10	0
Dalbandin	0000	2,785	921·2	...	901·9	42·6	37·4	28·5	5·5	...	57	...	2·2	...	0	7	2	0	0	2	0	1	19
	0300	...	922·3	0·0	903·0	41·9	36·8	28·2	5·5	—1.1	60	—9	2·7	+0·4	0	9	2	0	0	0	0	0	20
	1200	...	920·3	...	901·9	67·1	52·4	36·6	7·8	...	33	...	3·1	...	0	6	8	1	0	4	1	2	9
Nokkundi	0000	2,229	939·0	...	1018·3	49·7	40·5	26·1	4·8	...	42	...	1·3	...	12	8	1	0	0	1	0	7	2
	0300	...	940·5	...	1019·8	49·0	40·5	27·2	5·2	—0·7	44	—10	2·6	—1·0	11	11	0	1	0	0	0	8	0
	1200	...	938·3	...	1014·7	69·3	53·1	35·1	7·5	...	29	...	3·3	...	5	3	5	7	2	2	1	4	2
BALUCHISTAN (South)																							
Las Bela	0000	292																					
(R)	0300																						
	1200																						
Ormara	0000	15	1015·0	...	1015·5	62.7	61·0	59·6	17·6	...	91	...	0·0	...	0	1	0	0	2	0	1	1	26
	0300	...	1016·8	...	1017·3	62·8	59·9	57·6	16·3	+1·3	83	+6	0·0	—2·1	0	3	1	1	2	0	1	1	22
	1200	...	1014·3	...	1014·8	77·1	71·3	67·9	23·2	...	73	...	0·1	...	0	0	3	3	7	3	14	0	1
Pasni	0000	10	1016·8	...	1017·2	58·6	55·7	52·3	13·7	...	81	...	0·9	...	4	1	0	0	0	0	8	8	10
	0300	...	1017·7	+0·2	1018·1	62·2	58·3	54·4	14·7	+0·6	77	+2	0·9	—0·9	4	0	0	0	0	2	5	12	8
	1200	...	1015·0	...	1015·3	77·8	65·9	57·6	16·4	...	50	...	0·9	...	1	1	1	3	2	20	1	1	1
Turbat*	0000	510																					
	0300																						
	1200																						
Panjgur	0000	3,177	907·7	...	902·0	45·2	38·4	26·5	5·0	...	49	...	1·0	...	15	4	2	0	2	2	3	3	0
	0300	...	908·6	—0·2	902·8	43·0	37·5	27·0	5·4	—1·2	57	—6	2·1	—0·1	1	28	1	0	0	1	0	0	0
	1200	...	906·3	...	900·7	67·5	52·6	35·5	7·2	...	36	...	2·8	...	3	3	0	0	0	17	1	7	0
SIND (Upper)																							
Reti	0000	280	1007·5	...	1017·9	46·7	42·9	37·8	7·8	...	70	...	0·0	...	14	4	5	1	2	0	3	1	1
	0300	...	1009·2	...	1019·7	46·8	42·3	35·3	7·2	...	66	...	0·2	...	12	5	3	1	2	0	1	0	7
	1200	...	1006·6	...	1016·5	76·5	57·6	37·0	7·8	...	25	...	0·4	...	8	3	4	0	1	1	4	5	5
Jacobabad	0000	183	1009·9	...	1016·7	53·2	46·6	37·7	8·0	...	57	...	0·9	...	2	2	4	3	0	1	1	8	10
	0300	...	1011·7	—0·5	1018·5	52·6	45·8	37·2	7·5	—1·2	54	—14	1·5	—0·1	3	2	3	3	2	0	5	5	8
	1200	...	1009·0	...	1015·5	75·8	58·1	40·4	8·6	...	29	...	1·8	...	1	2	0	3	3	0	7	11	42
Sukkur																							
	0300	221	1010·0	—0·4	1018·1	53·4	49·6	45·7	10·4	+1·2	73	+8	1·1	—0·2	2	8	3	9	1	1	0	0	7
	1200	...	1007·5	...	1015·3	74·6	59·9	46·8	11·1	...	39	...	2·0	...	5	7	2	1	0	0	0	0	16
Padidan	0000	153	1010·6	...	1016·4	48·0	45·8	42·9	9·5	...	85	...	0·3	...	0	2	0	0	0	0	0	0	29
	0300	...	1012·4	...	1018·1	48·0	45·4	42·2	9·2	...	81	...	0·6	...	1	1	0	0	0	0	0	1	28
	1200	...	1010·3	...	1015·7	76·6	59·3	42·8	9·5	...	30	...	0·8	...	2	1	0	0	0	0	0	0	28

(R) Register not received.

*Data not available due to sudden death of observer.

TABLE II.—ABSTRACT OF OBSERVATIONS RECORDED AT FIXED HOURS DURING THE MONTH OF DECEMBER 1951

Sub-Division and Station	Hours of Observation	Height of bar. cistern above mean sea level	Mean pressure: Stn. level reduced to standard temp. and gravity	Mean pressure: Departure from normal	Mean pressure: Reduced to standard temp. and M.S.L. or nearest GPKM level	Mean temperature of the air and humidity: Dry bulb	Wet bulb	Dew point	Vapour pressure	Departure from normal	Relative humidity	Departure from normal	Total Cloud amount: Mean Amount	Departure from normal	Wind direction Number of observations from :— N	NE	E	SE	S	SW	W	NW	Calme.
1	2	3	4	5	5a	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
	GMT	Ft.	Mb.	Mb.	Mbs.	°F	°F	°F	mb.	mb.	%	%	Octas										
SIND (Lower)																							
Umarkot	0000	55	1013·2	...	1015·2	52·6	47·8	42·1	9·2	...	67	...	0·0	...	9	3	1	0	1	0	0	0	17
	0300	...	1014·9	...	1016·9	54·3	49·1	43·0	9·5	...	67	...	0·0	...	4	8	2	0	0	0	0	0	17
	1200	...	1012·0	...	1013·9	79·7	68·2	59·9	18·4	...	53	...	0·0	...	13	2	0	0	0	0	2	5	9
Chhor	0000	19	1014·7	...	1015·4	47·8	44·1	39·2	8·1	...	74	...	0·5	...	0	5	0	0	0	0	0	0	26
	0300	...	1016·6	...	1017·3	51·6	46·0	38·5	8·0	...	63	...	0·6	...	0	8	1	1	0	0	0	0	21
	1200	...	1013·5	...	1014·2	80·6	62·1	45·2	10·7	...	30	...	0·9	...	2	13	0	0	2	3	4	2	5
Hyderabad	0000	96	1011·9	...	1015·4	56·0	50·6	45·2	10·2	...	66	...	0·1	...	18	1	0	0	1	2	0	0	9
	0300	...	1014·3	—0·6	1017·7	56·3	51·0	45·2	10·4	+1·3	66	+8	0·4	—1·0	19	1	0	1	0	0	0	0	10
	1200	...	1011·7	...	1015·1	78·1	61·3	46·8	10·9	...	33	...	0·3	...	6	16	0	1	1	1	0	1	5
Karachi (Air Port)* ...	0000	73	1013·1	...	1015·7	55·8	50·8	45·1	10·4	...	69	...	0·2	...	16	2	0	0	0	0	0	0	13
	0300	...	1015·0	...	1017·6	57·1	51·5	45·4	10·4	...	67	...	0·6	...	17	1	0	0	0	0	0	0	13
	1200	...	1012·1	...	1014·7	79·2	63·9	50·6	13·3	...	40	...	0·7	...	0	5	2	0	7	11	3	1	2
Karachi (Monora)...	0000	13	1015·2	...	1015·7	64·0	58·3	53·3	14·1	...	76	...	0·5	...	2	9	0	0	0	0	1	0	19
	0300	...	1016·7	—0·8	1017·3	64·0	57·8	52·2	13·6	+1·7	68	+6	1·3	—0·5	3	15	1	0	0	0	0	0	12
	1200		1014·1	...	1014·6	77·3	67·5	59·8	18·5	...	57	...	1·0	...	1	2	1	0	0	10	10	2	5
Badin	0000	31	1015·5	...	1016·5	54.1	50·5	45·8	10·9	...	77	...	0·0	...	18	2	0	0	1	1	0	1	8
	0300	...	1017·5	+1·2	1018·7	53·3	49·3	44·6	10·2	+0·2	73	+12	0.0	—1·3	17	1	0	2	1	2	0	0	8
	1200	...	1013·4	...	1014·3	81·8	62·0	43·8	10·1	...	27	...	0·0	...	17	5	0	0	0	1	3	2	3
HILL STATIONS EXCLUDING KASHMIR AND BALUCHISTAN																							
Murree	0000	7,113	785·2	...	797·3	41·2	33·6	19·5	3·9	...	44	...	2·3	...	0	3	1	15	0	3	2	6	1
	0300	...	786·2	+0·1	798·4	42·7	34·3	19·6	3·8	—0·5	40	—8	3·6	+0·5	3	3	8	6	0	0	4	2	5
	1200	...	785·5	...	797·5	45·1	37·3	25·8	4·9	...	46	...	3·9	...	0	3	3	12	2	0	3	3	5
Cherat	0000	4,272	Not recorded during winter months.																				
	0300	...	873·6	+0·4	903·4	49·8	42·1	31·5	6·1	+1·1	51	+3	2·3	—0·6	27	0	0	0	1	0	1	0	2
	1200	...	872·7	...	902·2	54·3	45·7	39·0	7·0	...	49	...	2·5	...	17	1	0	0	8	0	4	1	0
Drosh	0000	4,806	858·5	...	906·3	39·0	32·6	19·5	3·8	...	45	...	2·0	...	0	0	0	0	0	0	0	0	31
	0300	...	859·3	+0·2	906·9	41·1	33·8	18·0	3·7	—1·5	40	—25	3·5	0·0	0	0	1	0	0	0	0	0	30
	1200	...	856·3	...	902·7	52·0	39·3	13·3	3·1	...	25	...	5·2	...	0	0	2	5	0	0	0	0	24
Parachinar	0000	5,673	828·4	...	796·9	38·8	32·7	22·0	4·2	...	53	...	1·8	...	12	6	0	0	0	0	2	4	7
	0300	...	829·6	+0·4	798·3	40·5	34·0	23·2	4·3	—1·0	51	—12	2·6	—0·4	9	4	0	1	0	0	1	2	14
	1200	...	828·6	...	797·9	54·4	41·2	25·1	4·1	...	30	...	3·4	...	0	0	3	18	3	0	1	0	6
Wana	0300	4,503	861·6	...	899·5	35·6	31·3	22·1	4·2	—0·6	60	—10	1·5	—0·1	0	0	0	0	0	4	1	1	25
	1200	...	860·5	...	896·8	56·3	44·0	26·1	4·9	...	31	...	2·5	...	0	0	0	1	1	1	3	2	23
AFGHANISTAN																							
Jalalabad	0300	1,950	949·2	...	1019·6	44·7	39·2	31·5	6·0	...	59	...	2·4	...	0	0	0	0	0	8	2	0	21
	1200	...	946·2	...	1013·4	65·0	51·9	37·4	8·0	...	38	...	3·2	...	0	1	8	0	0	0	2	1	19
Kabul	0300	5,955	824·6	...	802·6	34·2	29·9	22·3	4·1	+0·4	60	—10	3·0	—0·8	2	1	0	1	8	9	5	3	2
	1200	...	822·8	...	801·7	50·6	39·3	23·3	4·2	...	33	...	3·6	...	7	7	0	2	4	1	1	1	8
Kandahar	0300	3,462	898·8	...	902·5	34·5	32·0	28·1	5·1	...	76	...	2·2	...	0	0	0	0	0	0	0	0	31
	1200	...	897·0	...	900·5	61·5	49·8	37·0	7·5	...	39	...	2·0	...	0	0	0	0	0	1	0	1	29
IRAN																							
Jask	0300	13	1017·3	...	1017·7	66·1	63·5	61·6	18·9	...	87	...	2·7	+0·5	4	13	11	1	0	0	2	0	0
	1200	...	1015·3	...	1015·8	77·3	72·2	70·0	24·5	...	77	...	2·6	...	2	0	2	0	9	10	8	0	0
ARABIA																							
Muscat	0300	20	1017·0	...	1017·8	71·5	65·2	60·8	18·3	...	69	...	1·4	—0·8	0	1	0	0	4	3	6	4	1
	1200	...	1015·0	...	1015·5	75·3	67·7	63·2	19·7	...	66	...	1·7	...	2	9	1	1	2	1	1	14	0
Kuwait†	0500	16	1019·4	...	1020·1	57·6	53·3	49·4	12·1	...	73	...	3·4	...	4	3	0	1	1	2	9	7	4
	1200	...	1017·4	...	1017·9	64·5	57·4	50·8	12·9	...	63	...	1·9	...	4	2	1	3	2	0	4	9	6

* Same observatory was previously re-designated as Karachi (Drigh Road).

†Observations recorded at 0500 hrs. G.M.T. instead of 0300 hrs. G.M.T.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF DECEMBER 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hrs.	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less		
																			Fog	Thick Dust Haze	Dust-Storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
EAST PAKISTAN (North)																					
Pabna	82·0	+2·2	90	7	57·4	+3·2	52	17, 19, 20	0·00	—0·15	0·00	...	0	—0·3	†	...	0	0	0	0	0
Rajshahi ...	...	...	...	...	...	...	...	...	0·00	—0·11	0·00	...	0	—0·2	...	...	0	0	0	0	0
Siraj ganj ...	75·1	...	83	12	57·6		51	19	0·00	—0·09	0·00	...	0	—0·3	1·7	...	0	0	5	0	0
Bogra	80·3	+ 3·6	87	7	56·2	+1·7	49	17	0·00	—0·09	0·00	...	0	—0·2	1·5	+0·6	0	0	1	0	0
Dinajpur ...	80·3	+3·2	85	12, 13	52·2	+0·2	43	17	0·00	—0·06	0·00	...	0	—0·1	1·3	+0·2	0	0	0	0	0
Rangpur ...	...	...	...	...	...	...	...	...	0 00	—0·08	0·00	...	0	—0·2	...	...	...	...	...	...	...
EAST PAKISTAN (East)																					
Cox's Bazar ...	82·1	+2·4	89	7, 9	62·9	+4·2	54	18,21, 31	0·96	—0·02	0·45	13	2	+1·4	1·9	+0·7	0	0	0	0	0
Chittagong ...	81·5	+2·5	89	6, 7	60·4	+3·2	53	16,19, 20	0·28	—0·36	0·18	15	2	+1·3	2·1	—1·0	0	0	2	0	0
Noakhali (R) ...																					
Comilla	76·7	—2·5	83	12	61·2	+6·4	55	5 days.	0·00	—0·30	0·00	...	0	—0·4	1·5	+0·5	0	0	0	0	0
Narayanganj ...	83·1	+4·6	90	6	60·2	+2·7	54	20	0·00	—0·20	0·00	...	0	—0·4	(T)1·5	...	0	0	0	0	0
Brahmanbaria ...	81·9	+2·1	89	6	60·9	+5·5	53	19	0·00	—0·31	0·00	...	0	—0·5	1·7	...	0	0	1	0	0
Srimangal ...	80·9	+0·5	87	5	52·8	+3·3	44	24	0·00	—0·25	0·00	...	0	—0·5	0·7	—0·4	0	0	0	0	0
Mymensingh ...	80·2	+2·5	86	13, 15	57·3	+1·5	52	26, 27, 31	0·00	—0·09	0·00	...	0	—0·3	1·7	+1·2	0	0	0	0	0
EAST PAKISTAN (Detlaic)																					
Faridpur ...	73·5	—2·9	81	13	57·1	+2·2	50	20	0·00	—0·15	0·00	...	0	—0·3	0·7	—0·6	0	0	6	0	0
Barisal	81·3	+3·2	89	12	60·5	+3·9	55	20, 30	0·00	—0·25	0·00	...	0	—0·5	1·7	+0·6	0	0	0	0	0
Khulna ...	81·6	+2·9	87	12	59·7	+2·4	55	4 days.	0·00	—0·19	0·00	...	0	—0·3	1·6	—0·1	0	0	1	0	0
Jessore	81·2	+2·3	87	7, 13	55·4	+3·9	48	20	0·00	—0·18	0·00	...	0	—0·4	1·8	+0·9	0	0	1	0	0
Satkhira	81·0	+0·4	87	7	57·6	+3·2	51	20, 21	0·00	—0·17	0·00	...	0	—0·3	1·7	+0·8	0	0	1	0	0
KASHMIR																					
Srinagar † ...																					
Gulmarg † ...																					
Dras † ...																					
Leh † ...																					
Skardu † ...																					
Gilgit † ...																					
Misgar ...	39·2	...	45	10, 24	16·8	...	11	4 days	0·12	...	0·06	15,31	0	...	2·1	...	0	0	0	0	0
Jammu † ...																					
Kargil † ...																					
Gurez † ...																					
NORTH PUNJAB																					
Lahore	73·5	+1·2	78	27	43·9	+3·3	39	15	0·00	—0·47	0·00	...	0	—1·0	1·0	+0·2	1	0	0	0	0
Sialkot	69·1	—0·3	73	27	47·2	+5·0	42	16	0·15	—0·57	0·15	30	1	—0·3	0·9	+0·2	1	0	0	0	0
Jhelum	69·9	...	73	10	43·6	...	38	16	0·06	...	0.06	30	0	...	0·8	...	1	0	0	0	0
Rawalpindi ...	69·7	+2·9	73	8, 9, 11	40·4	+2·6	35	15, 16	0·15	—1·09	0·15	27	1	—1·3	1·4	+0·2	0	0	0	0	0
Khushab ...	74·4	+2·7	79	8	43·3	+1·8	39	4 days.	0·13	—0·30	0·13	27	1	+0·1	2·1	+0·2	0	0	0	0	0
Lyallpur	73·7	+3·0	76	5 days.	44·3	+2·1	40	30, 31	0·00	—0·25	0·00	[illegible]	...0	—0·8	1·0	—0·2	0	0	11	0	0
SOUTH PUNJAB																					
Montgomery ...	74·9	+2·9	79	26	43·1	0·0	37	24	0·00	—0·26	0·00	...	0	—0·8	†	[illegible]	0	0	0	0	0
Multan	76·2	+4·5	79	1, 26, 27	46·9	+3·5	43	15,30	0·00	—0·24	0·00	...	0	—0·7	1·0	+0·1	0	0	0	0	0
Fort Abbas ...	76·7	...	83	27	*	*	*	*	0·00	...	0·00	...	0	...	*	[illegible]	0	0	0	0	0
Bahawalpur ...	77·9	+3·9	84	27	46·0	+2·4	43	13, 15, 17	0·00	—0·22	0·00	...	0	—0·6	1·1	—0·5	0	0	0	0	0
Khanpur ...	78·5	+2·3	83	27	45·8	+1·8	41	30	0·00	—0·13	0·00	...	0	—0·5	2·2	—1·0	0	0	0	0	0

(R) Registered not received † Data not available.

* Data rejected.

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF DECEMBER 1951

Sub-Division and Station	Maximum temperature of the air °F				Minimum temperature of the air °F				Precipitation (Inches)						Wind velocity (Knots)		Weather Number of days				
	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10" or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code ngure 93 or less		
																			Fog	Thick Haze Dust	Dust-Storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
N. W. F. P. (Upper)																					
Chakdara ...	65·3	...	72	26	38·3	...	33	13	0·32	...	0·19	29	2	...	3·1	...	1	0	0	0	0
Peshawar ...	69·4	+2·7	76	26	42·3	+1·4	37	14, 22, 23	0·09	—0·58	0·05	26	0	—1·6	1·6	+0·5	1	0	1	0	0
Landi kotal ...	61·7	...	69	6	37·1	...	29	30	*	...	*	...	*	...	1·2	...	*	*	*	*	*
N. W. F. P. (Lower)																					
Bannu	72·1	+2·0	75	4 days	44·1	+2·1	41	13, 14, 15	0·00	—0·40	0·00	...	0	—1·5	2·0	...	0	0	0	0	0
Miranshah ...	66·9	+2·9	74	11	*	...	*	...	0·13	—0·47	0·13	26	1	—0·8	*	*	0	0	0	0	0
D. I. Khan ...	73·0	+1·5	80	1	*	...	*	...	0·02	—0·22	0·02	27	0	—0·7	0·7	+0·1	0	0	0	0	0
BALUCHISTAN (North)																					
Fort Sandeman ...	65·8	+5·9	72	4	37·3	+3·9	32	30	0·10	—0·47	0·10	26	1	+0·8	1·3	+0·1	0	0	0	0	0
Hindubagh ...	62·2	...	70	3	31·0	...	22	16	0·00	...	0·00	...	0	...	†	...	0	0	0	0	0
Loralai	64·2	...	69	4, 9, 10	33·0	...	29	16, 17, 30	0·75	+0·25	0·75	27	1	—0·5	2·6	...	0	0	0	0	0
Harnai	...	...	...	...	...	...	...	...	0·21	—0·56	0·21	27	1	—0·4	...	...	†	†	†	†	†
Sibi	78·7	+3·8	83	10, 21	48·7	+3·2	41	15	0·03	—0·27	0·03	27	0	—0·7	1·1	—0·4	0	0	0	0	0
Quetta	60·1	...	74	5	29·2	...	20	14	0·34	...	0·21	26	2	...	3·5	+1·8	0	0	5	0	0
Quetta (Samungli)	61·1(c)	...	70	5	24·0	...	18	30	0·49	...	0·26	26	2	...	3·5	...	0	0	0	0	0
Chaman	63·7	+6·7	88	6	40·9	+4·1	30	30, 31	0·76	—0·59	0·68	26	1	—2·2	3·3	—0·2	0	0	0	0	0
Nushki	68·5	...	79	6	47·2	...	29	29, 30	0·36	...	0·16	27	3	...	7·6	...	0	0	0	0	0
Kalat	59·7	+4·4	70	5	28·5	+2·4	19	13	0·43	—0·51	0·43	27	1	—1·2	4·9	+1·5	0	0	0	0	0
Dalbandin ...	69·7	+4·5	78	6	38·0	+3·0	29	31	0·24	—0·44	0·24	26	1	—0·8	2·9	+0·5	0	0	0	0	0
Nokkundi ...	71·9	+1·0	79	19, 21	45·5	+2·1	37	29, 30, 31	0·92	+0·78	0·92	26	1	+0·7	5·1	+0·9	0	0	0	0	0
BALUCHISTAN (South)																					
Las Bela (R)																					
Ormara	77·8	+0·4	82	14	58·8	—0·1	41	5	0·00	—0·64	0·00	...	0	—1·2	3·4	—0·3	0	0	0	0	0
Pasni	80·5	+2·6	86	1	57·6	+1·0	52	14	0·00	—0·84	0·00	...	0	—1·5	4·9	+0·5	0	0	0	0	0
Turbat†																					
Panjgur	69·3	+2·8	75	5	38·4	—1·4	32	30, 31	0·00	—0·57	0·00	...	0	—1·4	4·3	+0·2	0	0	0	0	0
SIND (Upper)																					
Reti	79·5	...	84	25, 26, 27	43·5	...	36	30	0·00	...	0·00	...	0	...	0·0	...	0	0	0	0	0
Jacobabad ...	78·9	+4·5	90	26	49·5	+3·0	44	31	0·00	—0·17	0·00	...	0	—0·5	2·6	+0·6	0	0	0	0	0
Sukkur	80·3	+4·1	85	22	49·1	+0·4	42	3	0·00	—0·03	0·00	...	0	—0·2	†	...	0	0	0	0	0
Padidan ...	77·8	...	81	4 days.	44·7	...	39	30	0·00	...	0·00	...	0	...	0·1	...	0	0	0	0	0
SIND (Lower)																					
Umar kot ...	83·3	...	90	22	49·2	...	45	16, 17, 18	0·00	...	0·00	...	0	...	†	...	0	0	0	0	0
Chhor	83·5	...	87	21, 22, 23	45·2	...	40	16	0·00	...	0·00	...	0	...	1·5	...	0	0	0	0	0
Hyderabad ...	81·7	+3·1	88	1, 21, 22	53·5	+0·9	49	30, 31	0·00	—0·10	0·00	...	0	—0·3	2·1	—1·4	0	0	0	0	0
Karachi (Airport)‡	83·5	...	87	23	53·8	...	49	16, 30	0·00	...	0·00	...	0	...	3·1	...	0	0	0	0	0
Karachi (Manora)	81·3	+2·6	85	7	62·4	+2·3	58	16	0·00	—0·20	0·00	...	0	—0·5	†	...	0	0	0	0	0
Badin	84·8	+4·3	91	22	50·5	—1·3	45	15	0·00	—0·15	0·00	...	0	—0·4	3·1	...	0	0	0	0	0
HILL STATIONS excluding Kashmir and Baluchistan.																					
Murree	53·5	+2·8	61	5, 7, 8	38·4	+3·5	25	30	1·16	—0·64	0·37	27	4	+0·8	4·9	+0·5	1	1	0	0	0
Cherat	59·2	+5·4	69	9	44·1	+1·7	34	30	1·31	—0·25	1·31	26	1	—1·2	†	...	0	0	0	0	0
Drosh	57·5	+7·0	67	6	38·2	+2·6	30	31	1·81	+0·61	1·02	27	3	—0·2	2·5	+0·7	0	0	0	0	0
Parachinar ...	60·5	+5·7	67	11	36·9	+4·4	27	31	0·33	—0·90	0·29	27	1	—1·9	2·9	+1·2	0	0	0	0	0
Wana	63·2	+3·3	68	5	30·7	+1·2	17	15, 16, 18	0·09	—0·61	0·05	14	0	—1·8	0·8	...	0	0	0	0	2

(R) Register not received. * Data rejected. † Data not available.

‡ Same observatory was previously designated as "Karachi (Drigh Road)".

TABLE III.—SUMMARY OF TEMPERATURE, PRECIPITATION, WIND VELOCITY AND WEATHER DURING THE MONTH OF DECEMBER 1951

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	Mean	Departure from normal	Highest	Date	Mean	Departure from normal	Lowest	Date	Total of the month	Departure from normal	Heaviest fall in 24 hours	Date	Days with 0·10* or more	Departure from normal	Mean	Departure from normal	Thunder heard	Hail	Visibility Code figure 93 or less.		
																			Fog	Thick Dust Haze	Dust-Storm
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
AFGHANISTAN																					
Jalalabad ...	68·1	...	74	9, 11, 26	*	*	*	*	0·00	...	0·00	...	0	...	0·8	...	0	0	0	0	0
Kabul	54·6	+7·0	64	4	29·1	+2·4	21	31	0·52	—0·05	0·24	26	2	+0·4	3·3	+1·1	0	0	0	0	0
Kandahar ...	67·5	...	77	23	29·9	...	25	5 days	0·59	...	0·46	26	2	...	0·8	...	0	0	0	0	0
IRAN																					
Jask	78·7	+0·9	86	2	64·3	+1·1	60	29	0·40	—0·75	0·40	25	1	—1·0	6·5	0·0	0	0	1	0	0
ARABIA																					
Muscat	77·9	—0·2	83	19, 25	69·8	+1·1	62	14	0·25	—0·45	0·25	26	1	—0·6	3·5	+0·4	0	0	1	0	0
Kuwait** ...	66·0	...	77	1	52·3	...	44	29	0·46	...	0·22	9	1	...	7·3	...	0	0	1	0	0

* Data rejected. ** Observations recorded at 0500 hrs. G. M. T., instead of 0300 hrs. G. M. T.

GPPK—H 17 MS—30:11-57—200